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COPYRIGHT 1987  
FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

UNIT VARIATIONS  
COVERED BY THIS  
PRINT SET

K-TC-BA11-A-1	FIELD MAINT. PRINT SET MPO0832
K-DD-BA11-A	DRAWING DIRECTORY-BA11-A UNIT ASSY.
E-UA-BA11-A-0	BA11-A UNIT ASSY.
K-PL-BA11-A-DBP	BA11-A UNIT ASSY. -P/L
E-AD-7016391-0-0	BA11-A BOX ASSEMBLY
K-PL-7016391-0-DBP	BA11-A BOX ASSY-P/L
C-IA-7016901-0-0	FAN POWER HARNESS
D-AD-7016472-0-0	FAN TRAY ASSEMBLY
K-PL-7016472-0-DBP	FAN TRAY ASSY-P/L
MPO0837	M7140 POWER SUPPLY FIELD MAINT. PRINT SET
D-AD-7016888-0-0	POWER DISTRIBUTION BD. ASSEMBLY
D-UA-5413632-0-0	POWER DISTRIBUTION BD.
D-CS-5413632-01	CIRCUIT SCHEMATIC (POWER DISTRIB. BD)
E-AD-7016493-0-0	BA11-A BOX FRAME ASSEMBLY
K-PL-7016943-0-DBP	BA11-A BOX FRAME ASSY-P/L
C-IA-7016392-0-0	FAN CABLE ASSEMBLY
D-AD-7016887-0-0	POWER DISTRIBUTION BD. HARNESS ASSY
MPO1760-01	M7204-A POWER SUPPLY FIELD MAINT. PRINT SET
MPO1762-01	M7204-B POWER SUPPLY FIELD MAINT. PRINT SET
E-AD-7022115-0-DBU	FAN TRAY ASSY (DC)
K-PL-7022155-0-DBP	FAN TRAY ASSY-P/L
D-AD-7016479-0-0	BOTTOM COVER ASSY
D-IA-7016887-0-0	CABLE JUMPER ASSY
B-DD-M9049-0-0	ELEM POWER SUPPLY LOAD BOARD -DD
D-UA-M9049-0-0	ELEM POWER SUPPLY LOAD BOARD - ASSY
K-PL-M9049-0-DBP	ELEM POWER SUPPLY LOAD BOARD -PL
D-CS-M9049-0-LBD1	LOAD BOARD-M7209-B P.S.
E-AD-7016963-0-0	CONSOLE/BAZEL ASSY.
D-IA-7020490-0-0	TOP COVER ASSY.
K-PL-7020490-0-0	TOP COVER ASSY-P/L

BA11-AA  
BA11-A9  
  
BA11-AE  
BA11-AF  
BA11-AM  
BA11-AL  
BA11-AS  
BA11-AT  
BA11-AU  
BA11-AV  
BA11-AW  
BA11-AX  
BA11-AY  
BA11-AZ

FIELD MAINTENANCE PRINT SET  
  
  
  
DIGITAL EQUIPMENT CORPORATION  
PRINT SET ORDER NO .  
MPO0832 REV. 81

REVISION HISTORY

CONT. REVISION HISTORY

MADE BY : JOHN NAGLE  
DATE : 20-JUN-79

REV	ECO NUMBER	DATE
A	INITIAL	- -79
B	BA11-A-MLO02	29-JUL-83
C	BA11-A-TW003	-MAR-85
D	BA11-A-MK006	25-APR-86
E	BA11-A-MK007	20-APR-87
		- -
		- -
		- -
		- -

REV	ECO NUMBER	DATE
		- -
		- -
		- -
		- -
		- -
		- -
		- -

CHECKED BY : P. HELG  
DATE : 17-AUG-79  
  
PROJECT ENGR : R. GRUDA  
DATE : 17-AUG-79  
  
RSPBLE ENGR : R. GRUDA  
DATE : 17-AUG-79  
  
FIELD SERVICE : RALPH EVANS  
DATE : 17-AUG-79

d | i | g | i | t | a | l

TITLE: FIELD MAINTENANCE PRINT SET  
BA11-A UNIT ASSEMBLY

SIZE	CODE	DOCUMENT NUMBER	REV.
K	TC	BA11-A-1	E

SHEET 1 OF 1 | EDIT : 4

DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS
		BA11-AA	A-BOX W/H7140-AA P.S. 120V	B1 B1
		BA11-AB	A-BOX W/H7140-AB P.S. 240V	B1 B1
		BA11-AS	A-BOX W/H7140-DA P.S. 120V	D1 D1
		BA11-AT	A-BOX W/H7140-DB P.S. 240V	D1 D1
		BA11-AU	A-BOX W/H7204-AA P.S. 120V	E1 E1
		BA11-AV	A-BOX W/H7204-AB P.S. 240V	E1 E1
		BA11-AM	A-BOX W/H7204-BA P.S. (ISOL. SLIDES)-120V	D1 E1
		BA11-AX	A-BOX W/H7204-BB P.S. (ISOL. SLIDES)-240V	D1 E1
		BA11-AY	A-BOX W/H7204-BA P.S. 120V	A1 B1
		BA11-AZ	A-BOX W/H7204-BB P.S. 240V	A1 B1
E-UA-BA11-A-0	3		UNIT ASSEMBLY ON BA11-A	E F
K-PL-BA11-A-DBP	2		PARTS LIST ON BA11-A	E F
K-TC-BA11-A-1	1		TABLE OF CONTENTS ON BA11-A	D E
		*BA11-AE	EXPANDER A-BOX W/H7140-BA P.S. 120V	
		*BA11-AF	EXPANDER A-BOX W/H7140-BB P.S.	

NOTES:  
 BA11-A AA, AB, AS, AT, AU, AV, AM, AX, AY, AZ.  
 \* NOTE: FOR VARIATIONS AE, AF, AL, AM SEE DRAWING DIRECTORY  
 K-DD-BA11-AE.

R E V I S I O N S  
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 E K K  
 O O O  
 N 6 7  
 O A  
 D 0  
 A 4  
 T /  
 E 8  
 7

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DRN: B. MORIN	DATE: 20-APR-87	d i g i t a l l	
CHK'D: P. HELG	DATE: 20-APR-87	TITLE BA11-A UNIT ASSEMBLY	
DES. ENG.: R. GRUDA	DATE: 20-APR-87	SHEET 1 OF 2	EDIT: 5
RESP. ENG.: R. GRUDA	DATE: 20-APR-87	DOCUMENT NUMBER	
		DD FILENAME: BA11-AE.DDF	
MFG. ENG.: R. LEWIS	DATE: 20-APR-87	SIZE   CODE   NUMBER   REV	K   DD   BA11-A-0   E

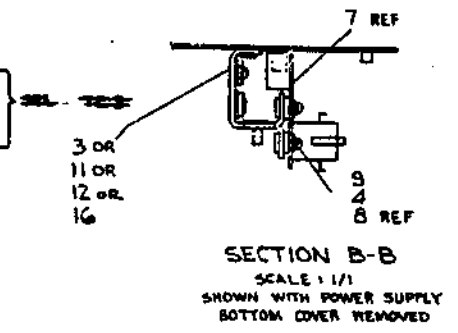
DRAWING NO.	NO. SHEETS	PART NO.	DESCRIPTION	REVISIONS
		*BA11-AL	240V EXPANDER A-BOX W/H7140-CA P.S.	
		*BA11-AM	120V EXPANDER A-BOX W/H7140-CB P.S. 240V	

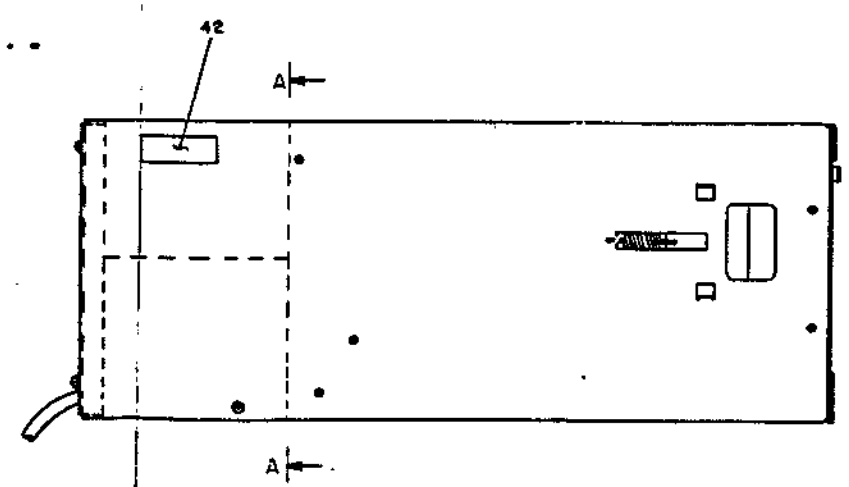
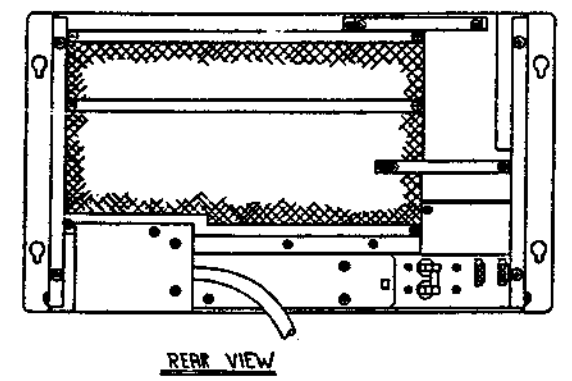
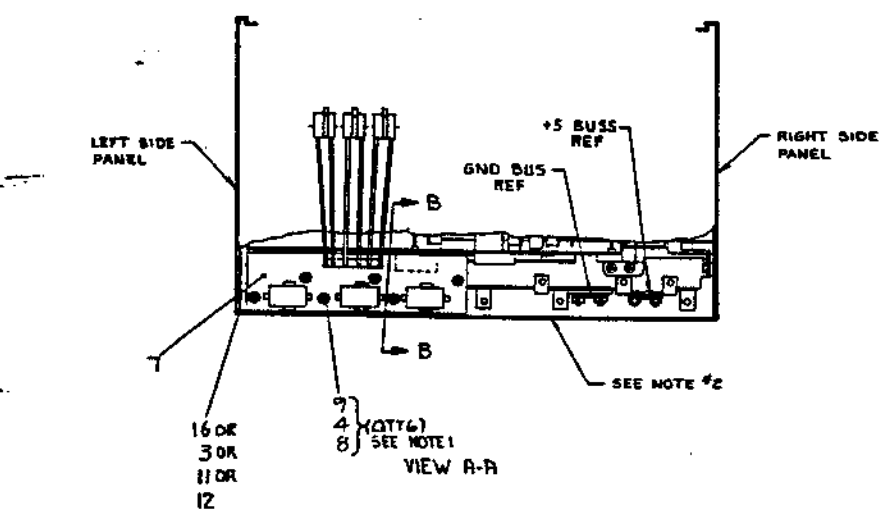
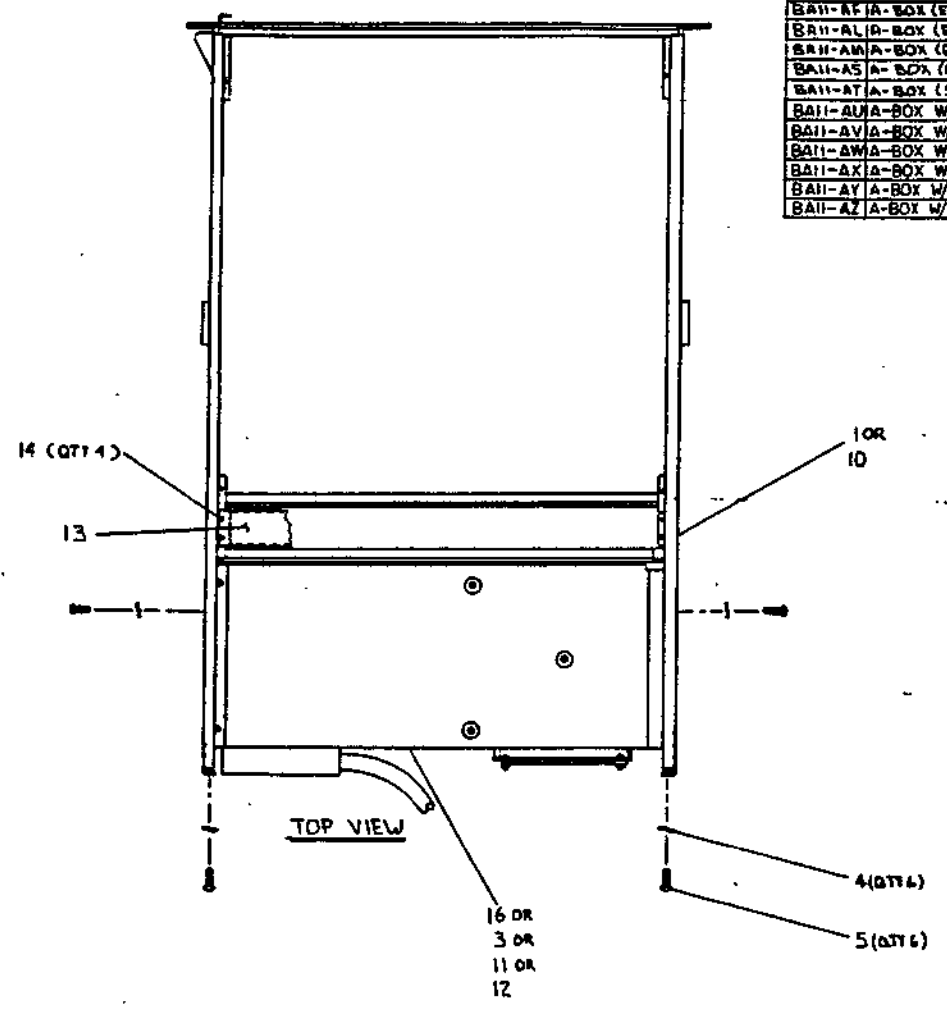
d i g i t a l	TITLE BA11-A UNIT ASSEMBLY	SHEET 2 OF 2	SIZE K	CODE DD	DOCUMENT NUMBER BA11-A-0	REV E
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J  
 H  
 F  
 E  
 D  
 C  
 B  
 A

VAR.	DESCRIPTION	REV
B11-AA	A-BOX (STD) W/H7140-AA P.S., 120V	B1
B11-AB	A-BOX (STD) W/H7140-AB P.S., 240V	B1
B11-AE	A-BOX (EXP) - SEE B-DD-B11-AE	REF
B11-AT	A-BOX (EXP) - SEE B-DD-B11-AE	REF
B11-AL	A-BOX (EXP) - SEE B-DD-B11-AE	REF
B11-AM	A-BOX (EXP) - SEE B-DD-B11-AE	REF
B11-AS	A-BOX (STD) W/H7140-DA P.S., 120V	D1
B11-AT	A-BOX (STD) W/H7140-DB P.S., 240V	D1
B11-AM	A-BOX W/H7204-AA P.S., 120V	D1
B11-AV	A-BOX W/H7204-AB P.S., 240V	D1
B11-AM	A-BOX W/H7204-BA P.S., 120V W/SLIDES	E1
B11-AX	A-BOX W/H7204-BB P.S., 240V W/SLIDES	E1
B11-AY	A-BOX W/H7204-BA P.S., 120V W/SLIDES	B1
B11-AZ	A-BOX W/H7204-BB P.S., 240V W/SLIDES	B1



- 1 TORQUE ITEMS 8 TO 22 W/BS.
- 2 POWER SUPPLY BOTTOM COVER MUST BE REMOVED TO INSTALL POWER DISTRIBUTION BOARD (ITEM 7)
- 3 ELEM LOAD BOARD MODULE (ITEM 51) IS TO BE SUPPLIED WITHIN THE B11-A BOX WHEN SHIPPED. REFER TO EK-H7204-UG-002 FOR PROPER USAGE OF THE LOAD BOARD MODULE.



VARIATIONS -AA, -AB, -AS, & -AT

REV	DATE	BY	CHKD	DESCRIPTION
1	11/64	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...

SEE OFF SHEET PARTS LIST  
N-PL-B11-R-00P

QUANTITY & VARIATION	DESCRIPTION	QUANTITY	UNIT
1	B11-A UNIT ASSEMBLY	1	EA

DATE: 11/64  
 DRAWN: ...  
 CHECKED: ...  
 TITLE: B11-A UNIT ASSEMBLY  
 PART NO: B11-A-O  
 REV: F

J  
 H  
 F  
 E  
 D  
 C  
 B  
 A





AUTOMATED BY VAXKPL (V1.3)

P A R T S L I S T

SHEET A1 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION									
						AA	AB	AE	AF	AL	AM	AS	AT	AU	AV
						B1	B1	A1	A1	A1	A1	D1	D1	D1	D1
1	1	E-AD-7016391-0-0	70-16391-00		BA11 BOX ASSY	1	1	-	-	-	-	-	-	-	-
2	2	E-UA-H7140-0-0	H7140-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-
3	3	E-UA-H7140-0-0	H7140-AB		H7140 W 240V LINE CORD, 50/60HZ	-	1	-	-	-	-	-	-	-	-
4	4		90-06690-00		WASHER, HELICAL SPLIT SST	12	12	-	-	-	-	12	12	-	-
5	5		90-06418-01		SCREW, THD RL, PAN PHIL F/METAL	6	6	-	-	-	-	6	6	-	-
6	6	A-SP-3700472-0-0	37-00472-00		INSTR PKG COMPUTER (BA11-A)	REF	REF	-	-	-	-	-	-	REF	REF
7	7	D-AD-7016888-0-0	70-16888-00		POWER DIST. JUMPER ASSY	1	1	-	-	-	1	1	1	-	-
8	8		90-06039-01		SCREW, MACH PAN PHIL	6	6	-	-	-	6	6	6	-	-
9	9		90-06661-00		WASHER, FLAT SST	3	6	-	-	-	6	6	6	-	-
10	10	E-AD-7016391-0-0	70-16391-03		BA11-A BOX ASSY	-	-	-	-	-	1	1	-	-	-
11	11	E-UA-H7140-0-0	H7140-DA		H7140 EXCEPT +12V/-15V BATT, 120V L	-	-	-	-	-	1	-	-	-	-
12	12	E-UA-H7140-0-0	H7140-DB		H7140 EXCEPT +12V/-15V BATT, 240V L	-	-	-	-	-	-	1	-	-	-
13	13	D-IA-7426283-0-0	74-26283-01		COVER, CABLE COMPARTMENT	-	-	-	-	-	1	1	1	1	1
14	14		90-09701-00		SCREW, SEMS PAN PHIL	-	-	-	-	-	4	4	4	4	4
15	15	B-DD-BA11-AE	BA11-AE		10.5" EXPANSION BOX W H7140-BA PS	-	-	-	REF	REF	REF	-	-	-	-
16	16	E-UA-H7140-0-0	H7140-AA		H7140 W 120V LINE CORD, 50/60HZ	1	-	-	-	-	-	-	-	-	-
17	17	E-UA-H7204-A-DBU	H7204-AA E		H7203, H7213, H7217, 120V	-	-	-	-	-	-	-	-	1	-
18	18	E-UA-H7204-A-DBU	H7204-AB E		H7203, H7213, H7217, 240V	-	-	-	-	-	-	-	-	-	1
19	19	E-UA-H7204-B-DBU	H7204-BA E		H7203, H7216-A, H7217, 120V	-	-	-	-	-	-	-	-	-	1
20	20	E-UA-H7204-0-B	H7204-BB E		H7203, H7216-A, H7217, 240V	-	-	-	-	-	-	-	-	-	-
21	21	E-AD-7016391-0-0	70-16391-01		BALL BOX ASSY.	-	-	-	-	-	-	-	-	1	1
22	22	E-AD-7022115-0-DBU	70-22115-01		FAN TRAY ASSY.	-	-	-	-	-	-	-	-	1	1
23	23	A-PS-3622148-0-0	36-22148-01		LABEL, ELEC RATINGS	-	-	-	-	-	-	-	-	-	-
24	24	E-AD-7016963-0-0	70-16963-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-
25	25	A-PS-1217837-0-0	12-17837-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-
26	26		90-10119-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-
27	27	D-AD-7016479-0-0	70-16479-00		BOTTOM COVER ASSY.	-	-	-	-	-	-	-	-	-	-
28	28	A-PS-3615087-0-0	36-15087-02		LABEL, "DANGER-HIGH CURRENT"	-	-	-	-	-	-	-	-	-	-
29	29	A-PS-3617791-0-0	36-17791-01		LABEL, BA11-A MODULE UTILIZATION	-	-	-	-	-	-	-	-	-	-
30	30	A-PS-1216971-0-0	12-16971-01		CHASSIS SLIDE - NO MOUNTING BRACKET	-	-	-	-	-	-	-	-	-	-
31	31	C-MD-7413659-0-0	74-13659-00		BRACKET SHIPPING	-	-	-	-	-	-	-	-	-	-
32	32		90-06565-00		NUT, HEX EXT TOOTH LOCKWHR 10-32X	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY			KPL MATRIX FORMAT SECTION A OF BIDRNS S. CHARTIER			DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE: 16-APR-82				
	INITIAL	A	[A] AA, AB, AE, AF, AL, AM, AS, AT, AU, AV	CHK'D: T. MCCULLOUGH	TITLE PARTS LIST			
RM	BA11-A-MLOD2	B	[B] AV, AX, AY, AZ	DATE: 16-APR-82	BA11-A UNIT ASSY			
CG	BA11-A-MLOD4	C	[C]	DES. ENG: R. BOUDREAU				
RM	BA11-A-TM005	D	[D]	DATE: 16-APR-82	DOCUMENT NUMBER			
RM	BA11-A-MK006	E	[E]		SIZE	CODE	NUMBER	REV
RM	BA11-A-MK007	F	[F]	RESP. ENG: R. BOUDREAU				
			[H]	DATE: 16-APR-82	PL	BA11-A-DBP		
			[J]	MFG. ENG: J. GALLANT	RELEASE DATE: 07-JUL-87			
				DATE: 16-APR-82	RELEASE STATUS: RELEASED			
BASIC PART NUMBER: BA11			ASSEMBLY NUMBER: E-UA-BA11-A-0	TOP DOCUMENT NUMBER: E-UA-BA11-A-0	FILE NAME: BA11AF.PLS	EDIT #: 2		

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PARTS LIST

SHEET A2 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION										
						AA B1	AB B1	AE A1	AF A1	AL A1	AM A1	AS D1	AT D1	AU D1	AV D1	
33	33	D-IA-7020490-0-0	70-20490-00		TOP COVER ASSY	-	-	-	-	-	-	-	-	-	-	-
34	34	C-IA-7020491-0-0	70-20491-00		CABLE CLAMP ASSY	-	-	-	-	-	-	-	-	-	-	-
35	35		90-06077-01		SCREW, MACH PAN PHIL 10-32	-	-	-	-	-	-	-	-	-	-	-
36	36	D-MD-7421613-0-0	74-21613-00		SLIDE INDEX PLATES	-	-	-	-	-	-	-	-	-	-	-
37	37	D-MD-7421613-0-0	74-21613-01		PLATE, SLIDE INDEX	-	-	-	-	-	-	-	-	-	-	-
38	38	A-PS-1216197-0-0	12-16197-00		SCREW, PIVOT	-	-	-	-	-	-	-	-	-	-	-
39	39		90-10120-00		SCREW, FLAT PHIL 6-32	-	-	-	-	-	-	-	-	-	-	-
40	40	D-IA-7016887-0-0	70-16887-00		CABLE, JUMPER ASSY	-	-	-	-	-	-	-	-	2	2	-
41	41		90-09984-00		SCREW, SEMS PAN PHIL 6-32	-	-	-	-	-	-	-	-	1	1	-
42	42		90-09255-01		LABEL, POWER SUPPLY, 2-7/8" LG X 1	1	1	-	-	-	-	-	-	6	6	-
43	43	C-MD-7431234-0-DBU	74-31234-01		BRACKET, SLIDE MTG. R.H.	-	-	-	-	-	-	-	-	-	-	-
44	44	C-MD-7431234-0-DBU	74-31234-02		BRACKET, SLIDE MTG. L.H.	-	-	-	-	-	-	-	-	-	-	-
45	45		90-08897-00		NUT, WELL 1/4-20X .7400D BRASS	-	-	-	-	-	-	-	-	-	-	-
46	46		90-06037-03		SCREW, MACH TRUSS PHIL 8-32	-	-	-	-	-	-	-	-	-	-	-
47	47		90-06563-00		NUT, HEX EXT TOOTH LCKVSHR 8-32X	-	-	-	-	-	-	-	-	-	-	-
48	48		90-06660-00		WASHER, FLAT SST	-	-	-	-	-	-	-	-	-	-	-
49	49		90-09329-01		SCREW, MACH PAN PHIL 1/4-20	-	-	-	-	-	-	-	-	-	-	-
50	50		12-16971-00		CHASSIS SLIDE FOR BA11-A	-	-	-	-	-	-	-	-	-	-	-
51	51		K9049-00		ELEM POWER SUPPLY LOAD BOARD	-	-	-	-	-	-	-	-	-	-	-

1 GEN: VARIATIONS AE, AF, AL, AM ARE REF. VARIATIONS ONLY. SEE B-DD-BA11-AE AND K-PL-BA11-AE.

D	I	G	I	T	A	L	TITLE	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							BA11-A UNIT ASSY		K	PL	BA11-A-DBP	F



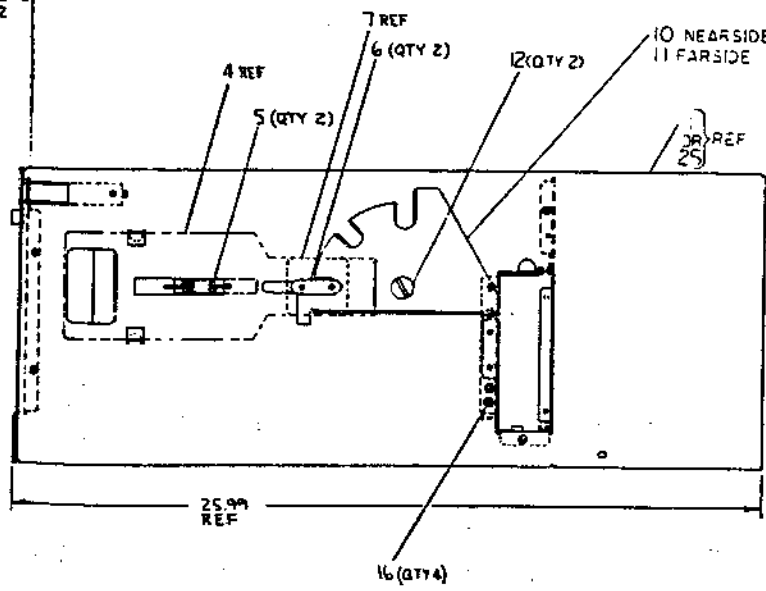
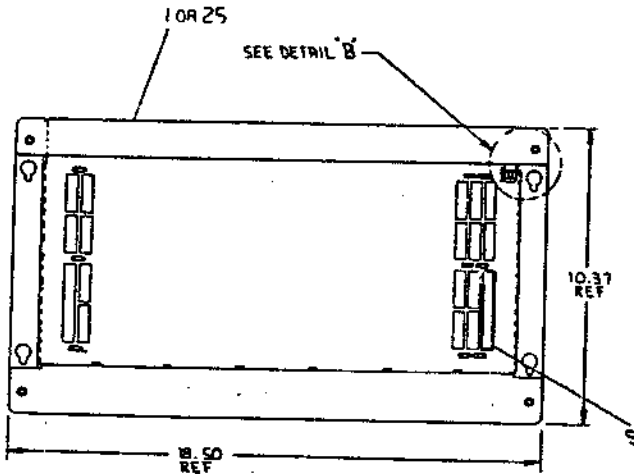
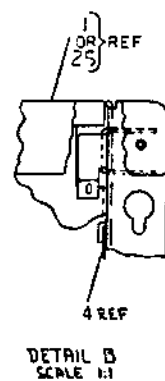
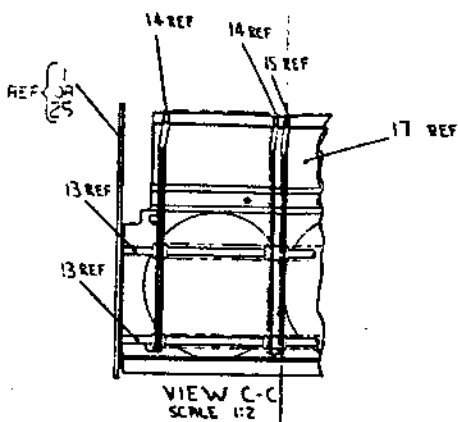
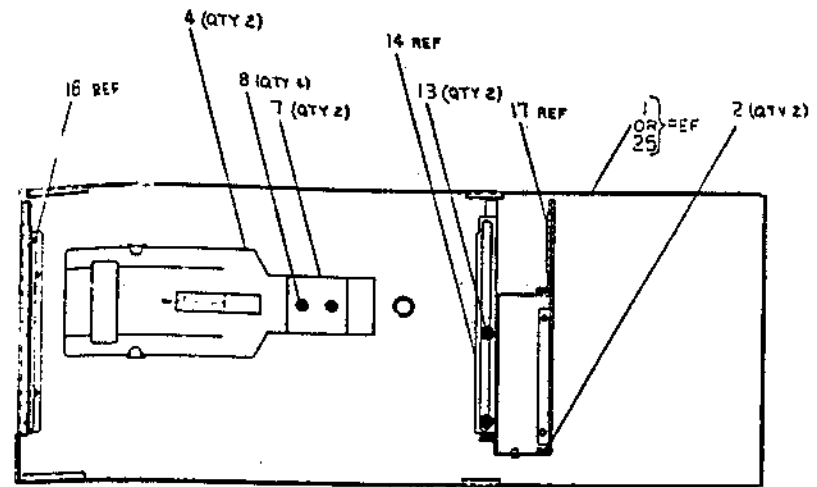
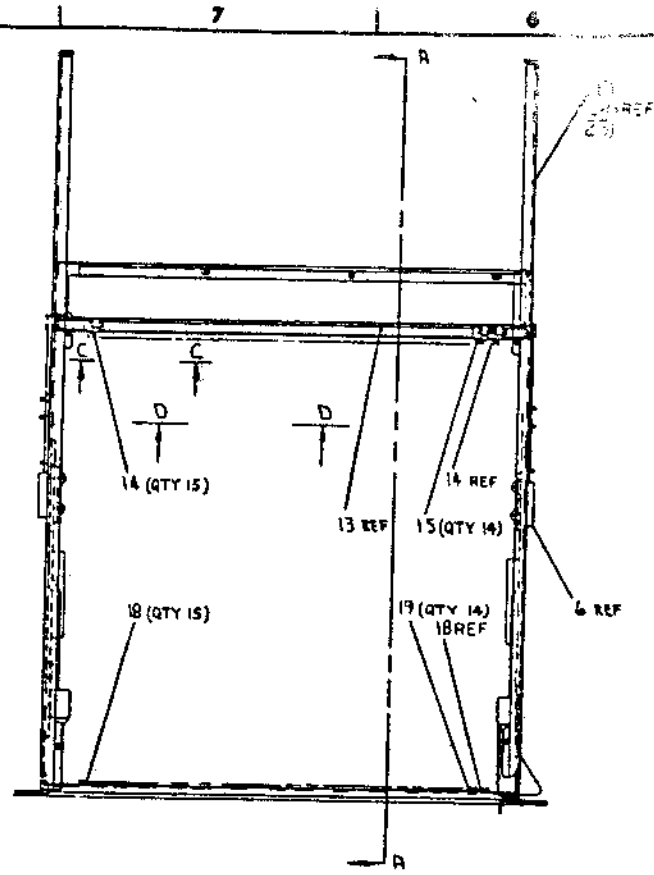
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION			
						AW E1	AX E1	AY 01	AZ 01
1	1	E-AD-7016391-0-0	70-16391-00		BA11 BOX ASSY	-	-	-	-
2	2	E-UA-H7140-0-0	H7140-00		*** THIS ITEM IS NOT USED ***	-	-	-	-
3	3	E-UA-H7140-0-0	H7140-AB		H7140 W 240V LINE CORD, 50/60HZ	-	-	-	-
4	4		90-06690-00		WASHER, HELICAL SPLIT SST	-	-	-	-
5	5		90-06418-01		SCREW, TMD RL, PAN PHIL F/METAL 8	-	-	-	-
6	6	A-SP-3700472-0-0	37-00472-00		INSTR PKG COMPUTER(BA11-A)	REF	REF	REF	REF
7	7	D-AD-7016888-0-0	70-16888-00		POWER DIST. JUMPER ASSY	-	-	-	-
8	8		90-06039-01		SCREW, MACH PAN PHIL 8-32	-	-	-	-
9	9		90-06661-00		WASHER, FLAT SST	-	-	-	-
10	10	E-AD-7016391-0-0	70-16391-03		BA11-A BOX ASSY	-	-	-	-
11	11	E-UA-H7140-0-0	H7140-DA		H7140 EXCEPT +12V/-15V BATT, 120V L	-	-	-	-
12	12	E-UA-H7140-0-0	H7140-DB		H7140 EXCEPT +12V/-15V BATT, 240V L	-	-	-	-
13	13	D-IA-7426283-0-0	74-26283-01		COVER, CABLE COMPARTMENT	1	1	1	1
14	14		90-09701-00		SCREW, SEMS PAN PHIL 6-32	12	12	-	-
15	15	B-DD-BA11-AE	BA11-AE		10.5" EXPANSION BOX W H7140-BA PS,	-	-	-	-
16	16	E-UA-H7140-0-0	H7140-AA		H7140 W 120V LINE CORD, 50/60HZ	-	-	-	-
17	17	E-UA-H7204-A-DBU	H7204-AA E		H7203, H7213, H7217, 120V	-	-	-	-
18	18	E-UA-H7204-A-DBU	H7204-AB E		H7203, H7213, H7217, 240V	-	-	-	-
19	19	E-UA-H7204-B-DBU	H7204-BA E		H7203, H7216-A, H7217, 120V	1	-	1	-
20	20	E-UA-H7204-0-B	H7204-BB E		H7203, H7216-A, H7217, 240V	-	1	-	1
21	21	E-AD-7016391-0-0	70-16391-01		BALL BOX ASSY.	1	1	1	1
22	22	E-AD-7022115-0-DBU	70-22115-01		FAN TRAY ASSY.	1	1	1	1
23	23	A-PS-3622148-0-0	36-22148-01		LABEL, ELEC RATINGS	1	1	1	1
24	24	E-AD-7016963-0-0	70-16963-00		*** THIS ITEM IS NOT USED ***	-	-	-	-
25	25	A-PS-1217837-0-0	12-17837-00		*** THIS ITEM IS NOT USED ***	-	-	-	-
26	26		90-10119-00		*** THIS ITEM IS NOT USED ***	-	-	-	-
27	27	D-AD-7016479-0-0	70-16479-00		BOTTOM COVER ASSY.	1	1	1	1
28	28	A-PS-3615087-0-0	36-15087-02		LABEL, "DANGER-HIGH CURRENT"	1	1	1	1
29	29	A-PS-3617791-0-0	36-17791-01		LABEL, BA11-A MODULE UTILIZATION	1	1	1	1
30	30	A-PS-1216971-0-0	12-16971-01		CHASSIS SLIDE - NO MOUNTING BRACKE	1	1	-	-
31	31	C-MD-7413659-0-0	74-13659-00		BRACKET SHIPPING	1	1	1	1
32	32		90-06565-00		NUT, HEX EXT TOOTH LCKWSHR 10-32X	1	1	1	1

REVISION HISTORY			KPL MATRIX FORMAT		SECTION B OF BIDRNs		S. CHARTIER	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE	DIGITAL		
		A	[A]	AA, AB, AE, AF, AL, AM, AS, AT, AU, AV	16-APR-82	T. MCCULLOUGH		
		B	[B]	AM, AX, AY, AZ	16-APR-82	R. BOUDREAU		
		C	[C]		16-APR-82	R. BOUDREAU		
		D	[D]		16-APR-82	R. BOUDREAU		
		E	[E]		16-APR-82	R. BOUDREAU		
		F	[F]		16-APR-82	R. BOUDREAU		
			[G]					
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
 DIMENSIONS IN PARENTHESES ARE ALTERNATE DIMENSIONS  
 DIMENSIONS IN BRACKETS ARE DIMENSIONS OF VARIATIONS  
 DIMENSIONS IN SQUARE BRACKETS ARE DIMENSIONS OF VARIATIONS  
 DIMENSIONS IN CIRCLES ARE DIMENSIONS OF VARIATIONS

NOTES:



LEGEND	
VARIATIONS	DESCRIPTIONS
706391-03	BAII-A BOX, W/FANS
706391-01	BAII-A BOX, W/O FANS
706391-02	BAII-A BOX, W/QUIET FANS
706391-04	BAII-A BOX, W/FANS (11770)

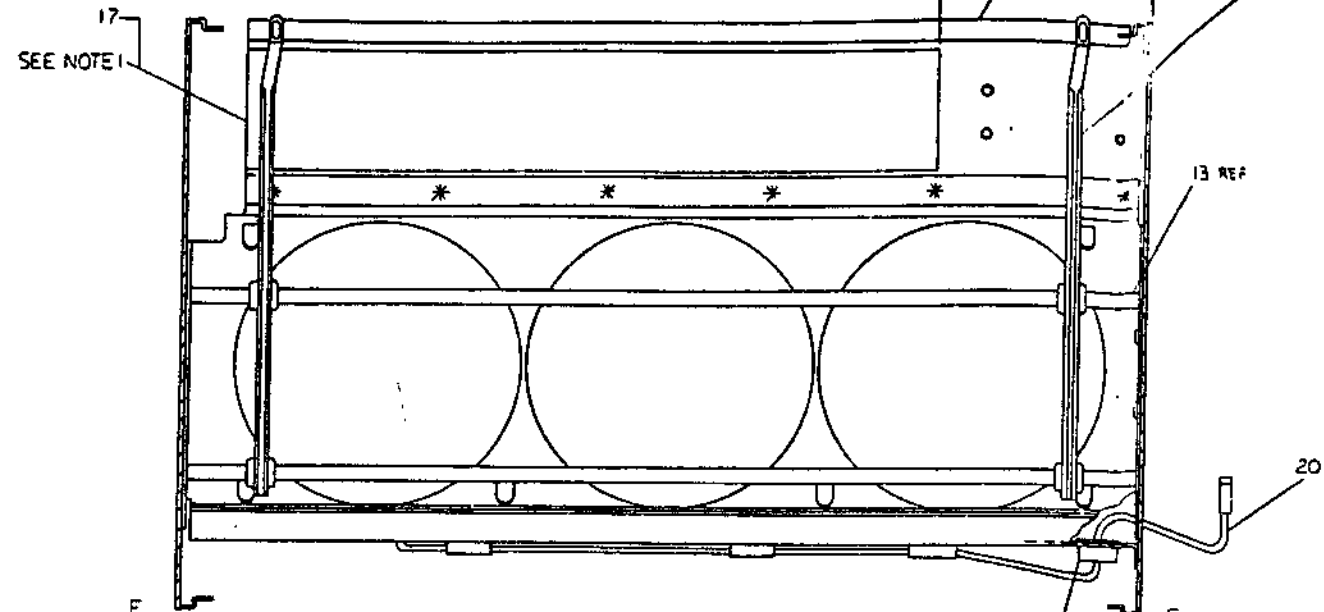
CAUTION: OFF SHEET PARTS LIST  
 EXIST SEE K-PL-706391-0-DBR  
 (2-75-2)

REV	DATE	DESCRIPTION
1	10/1/75	ISSUED FOR PRODUCTION
2	10/1/75	REVISED TO SHOW CHANGES
3	10/1/75	REVISED TO SHOW CHANGES
4	10/1/75	REVISED TO SHOW CHANGES
5	10/1/75	REVISED TO SHOW CHANGES
6	10/1/75	REVISED TO SHOW CHANGES
7	10/1/75	REVISED TO SHOW CHANGES
8	10/1/75	REVISED TO SHOW CHANGES
9	10/1/75	REVISED TO SHOW CHANGES
10	10/1/75	REVISED TO SHOW CHANGES
11	10/1/75	REVISED TO SHOW CHANGES
12	10/1/75	REVISED TO SHOW CHANGES
13	10/1/75	REVISED TO SHOW CHANGES
14	10/1/75	REVISED TO SHOW CHANGES
15	10/1/75	REVISED TO SHOW CHANGES
16	10/1/75	REVISED TO SHOW CHANGES
17	10/1/75	REVISED TO SHOW CHANGES
18	10/1/75	REVISED TO SHOW CHANGES
19	10/1/75	REVISED TO SHOW CHANGES
20	10/1/75	REVISED TO SHOW CHANGES

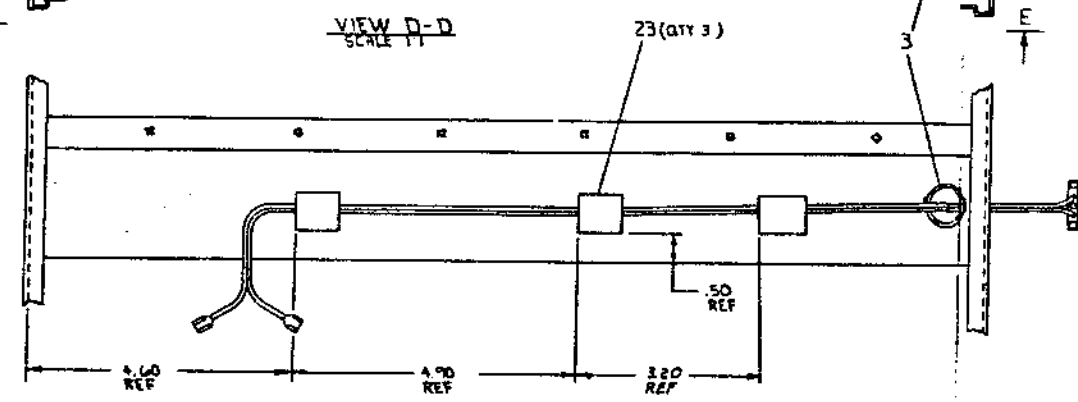
REV	DATE	DESCRIPTION
1	10/1/75	ISSUED FOR PRODUCTION
2	10/1/75	REVISED TO SHOW CHANGES
3	10/1/75	REVISED TO SHOW CHANGES
4	10/1/75	REVISED TO SHOW CHANGES
5	10/1/75	REVISED TO SHOW CHANGES
6	10/1/75	REVISED TO SHOW CHANGES
7	10/1/75	REVISED TO SHOW CHANGES
8	10/1/75	REVISED TO SHOW CHANGES
9	10/1/75	REVISED TO SHOW CHANGES
10	10/1/75	REVISED TO SHOW CHANGES
11	10/1/75	REVISED TO SHOW CHANGES
12	10/1/75	REVISED TO SHOW CHANGES
13	10/1/75	REVISED TO SHOW CHANGES
14	10/1/75	REVISED TO SHOW CHANGES
15	10/1/75	REVISED TO SHOW CHANGES
16	10/1/75	REVISED TO SHOW CHANGES
17	10/1/75	REVISED TO SHOW CHANGES
18	10/1/75	REVISED TO SHOW CHANGES
19	10/1/75	REVISED TO SHOW CHANGES
20	10/1/75	REVISED TO SHOW CHANGES

1. This drawing is a technical drawing of a fan tray assembly. It shows the front view (VIEW D-D) and a side view (VIEW E-E) of the assembly. The front view shows three fans mounted on a tray. The side view shows the internal wiring and components. The drawing includes dimensions and callouts for various parts. A note indicates that L-Tape (Item 17) should be brought out to the very edge of the fan tray. The drawing is titled 'RAIL ROY ASSEMBLY' and 'PLAN 701631-0-0 E'.

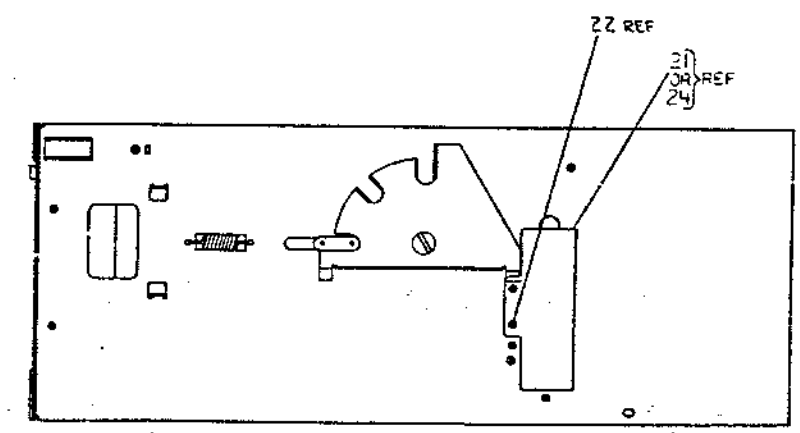
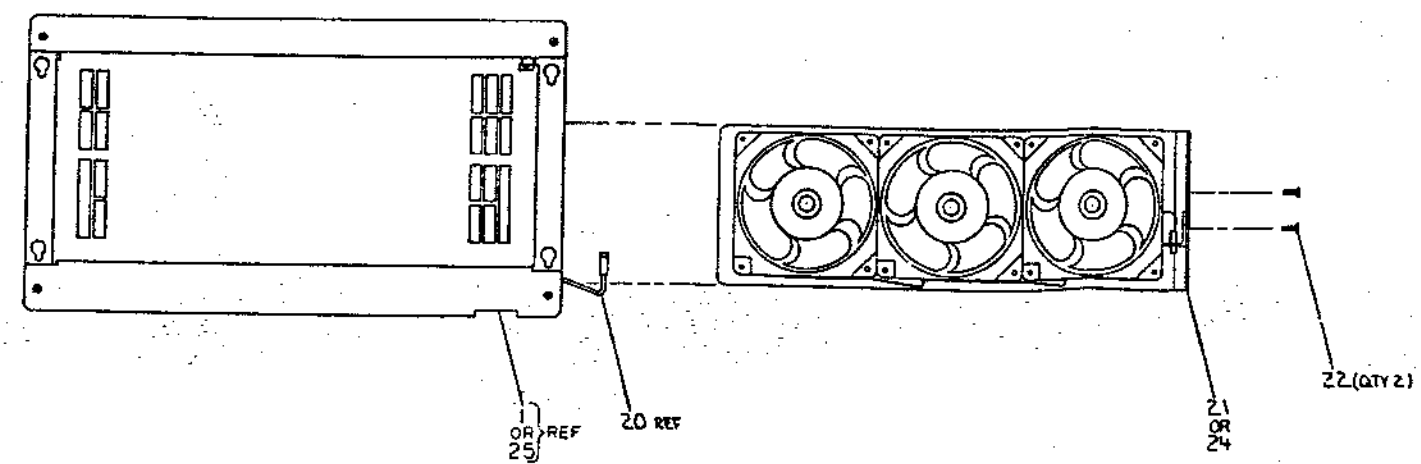
NOTES  
 L TAPE (ITEM 17) TO BE BROUGHT  
 OUT TO THE VERY EDGE OF FAN  
 TRAY.



VIEW D-D  
 SCALE 1:1



VIEW E-E  
 SCALE 1:1

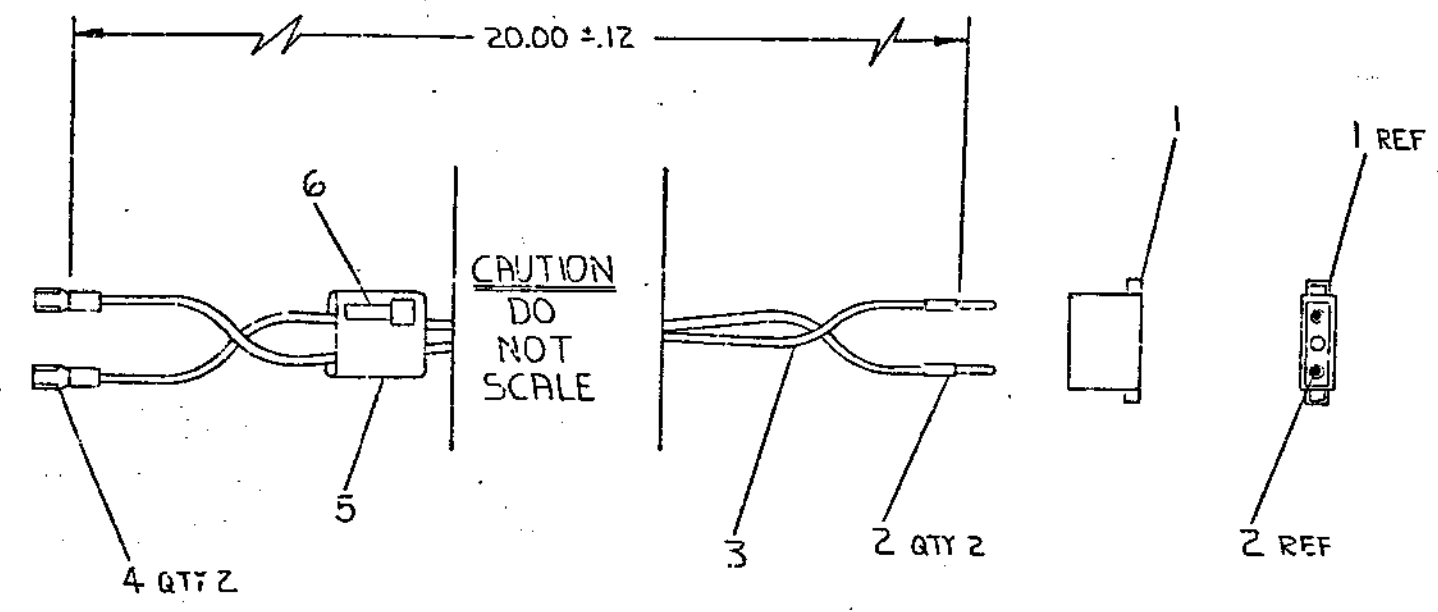


LINE	ITEM	TOP DOCUMENT	NUMBER	DESCRIPTION	QTY PER VARIATION			
					00	01	02	03
VARIATION REVISION LEVEL:								
1	1	E-AD-7016493-0-0	7016493-00	BOX FRAME ASSY	1	-	-	-
2	2		9010107-00	WHEEL, POLYMER POLYMER	2	2	2	2
3	3		9007783-00	SPRING SNAP-IN NYLON .625 MTG	1	1	1	1
4	4		1217055-00	TRACTOR, SLIDE PAWL	2	2	2	2
5	5		1216190-00	SPRING, EXTENSION .50 ODX1.858	2	2	2	2
6	6	B-MD-7421611-0-0	7421611-00	GUIDE STRING	2	2	2	2
7	7	B-MD-7421444-0-0	7421444-00	PLATE, SLIDE NUT	2	2	2	2
8	8		1216785-00	SCREW, SEMS TRUSS PHIL 10-	4	4	4	4
9	9		9007035-00	GROMMET, CATERPILLAR POLYAMIDE	1	1	1	1
10	10	D-MD-7421613-0-0	7421613-00	SLIDE INDEX PLATES	-	-	1	-
11	11	D-MD-7421613-0-0	7421613-01	PLATE, SLIDE INDEX	-	-	1	-
12	12		1216197-00	SCREW, PIVOT	-	-	2	-
13	13	B-MD-7421612-0-0	7421612-00	GUIDE MTG BAR	2	2	2	2
14	14		1215848-00	GUIDE, CARD, POLYCAR, NATURAL	15	15	15	15
15	15		1215848-01	GUIDE, CARD, POLYCAR, BLACK	14	14	14	14
16	16		9010118-00	SCREW, FLAT PHIL 8-	4	4	4	4
17	17		9009087-00	FOAM, TAPE, SINGLE SIDED 1/8 THK	1	1	1	1
18	18		1212405-00	GUIDE, CARD, NYLON, NATURAL	15	15	15	15
19	19		1212405-10	GUIDE, CARD, NYLON, BLACK	14	14	14	14
20	20	C-IA-7016901-0-0	7016901-00	FAN, POWER HARNESS	1	-	1	1
21	21	D-AD-7016472-0-0	7016472-00	FAN TRAY ASSY	1	-	-	1
22	22		9010120-00	SCREW, FLAT PHIL 6-	2	-	2	2
23	23		9009771-03	CLAMP, CABLE, U CLIP, ADH. BACK 3/1	3	-	3	3
24	24	D-AD-7016472-0-0	7016472-01	FAN TRAY ASSY	-	-	1	-
25	25	E-IA-7016493-0-0	7016493-01	BA11 BOX FRAME ASSY W/BRKT	-	1	1	1

REVISION HISTORY			BASIC PART NO: 7016391		DRN:	S. CHARTIER	DATE:	16-APR-82	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D:	T. MCCULLOUGH	DATE:	16-APR-82	TITLE PARTS LIST			
---	INITIAL	B	SECTION VARIATION INDEX						BA11-A BOX ASSY			
RM	BA11-AE-TW001	C	(A)00,01,02,03						DOCUMENT NUMBER			
CG	BA11-A-ML003	D	(B)		DES.ENG:	R. BOUDREAU	DATE:	16-APR-82	SIZE	CODE	NUMBER	REV
RM	BA11-A-TW005	E	(C)						K	PL	7016391-0-DBP	E
			(D)		RESP.ENG.:	R. BOUDREAU	DATE:	16-APR-82	RELEASE DATE: 17-JUN-85			
			(E)		MFG.ENG.:	J. GALLANT	DATE:	16-APR-82				
			(F)		ASSEMBLY NUMBER:	E-AD-7016391-0-0	TOP DOCUMENT NUMBER:		FILE NAME:	Z3626E.PLS	EDIT #	17

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1	TIE, CABLE SSTI-M	9007031-00	6
1	LABLE, CABLE I.D.	9009532-00	5
2	TERM. QCK 1 POS INS 22-18A ROLL	9007970-00	4
R/R	WIRE, 18 AWG TWST PAIR	9107430-29	3
2	PIN, MATE N LOC 18 AWG	1209378-00	2
1	CONN, MATE N LOC 3 PIN	1209351-03	1

REVISIONS	CHANGE NO.	REV.	DATE
1	1	A	1/11/77
2	2	A	1/11/77
3	3	A	1/11/77
4	4	A	1/11/77

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DESCRIPTION		DWG/PART NO.		ITEM NO.	
ANGLES 30° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES					
SURFACE QUALITY IN MICRONS	MEDIUM PREFERRED	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 100.0
		±.004	±.008	±.012	±.016	±.021	±.04
THIRD ANGLE PROJECTION		DRN	CHK'D	ENG.	PROJ. ENG.	PROD.	FIRST USED ON
REMOVE BURRS AND BREAK SHARP CORNERS		DO NOT SCALE DWG		NEXT HIGHER ASSY.		TITLE	
MATERIAL		SCALE		SIZE CODE		NUMBER	
FINISH		SHEET		REV.		REV.	

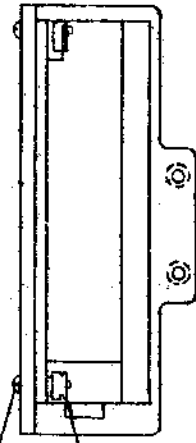
TITLE: FAN POWER HARNESS  
 NUMBER: C I A 7016901-0-0  
 REV: A  
 SHEET: 1 OF 1

NUMBER: 7016901-0-0  
 REV: A

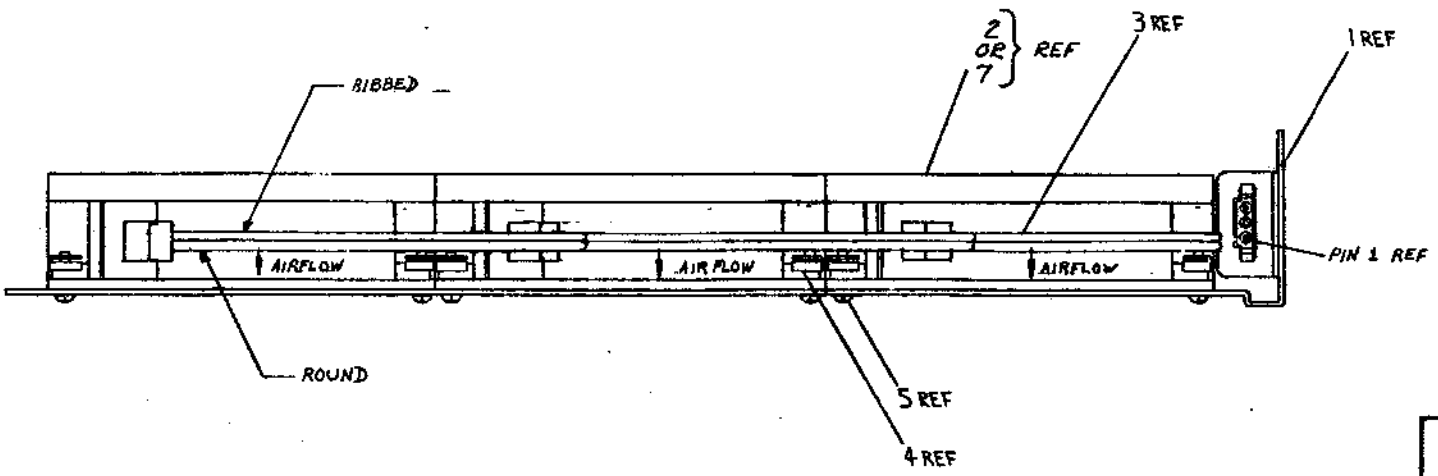
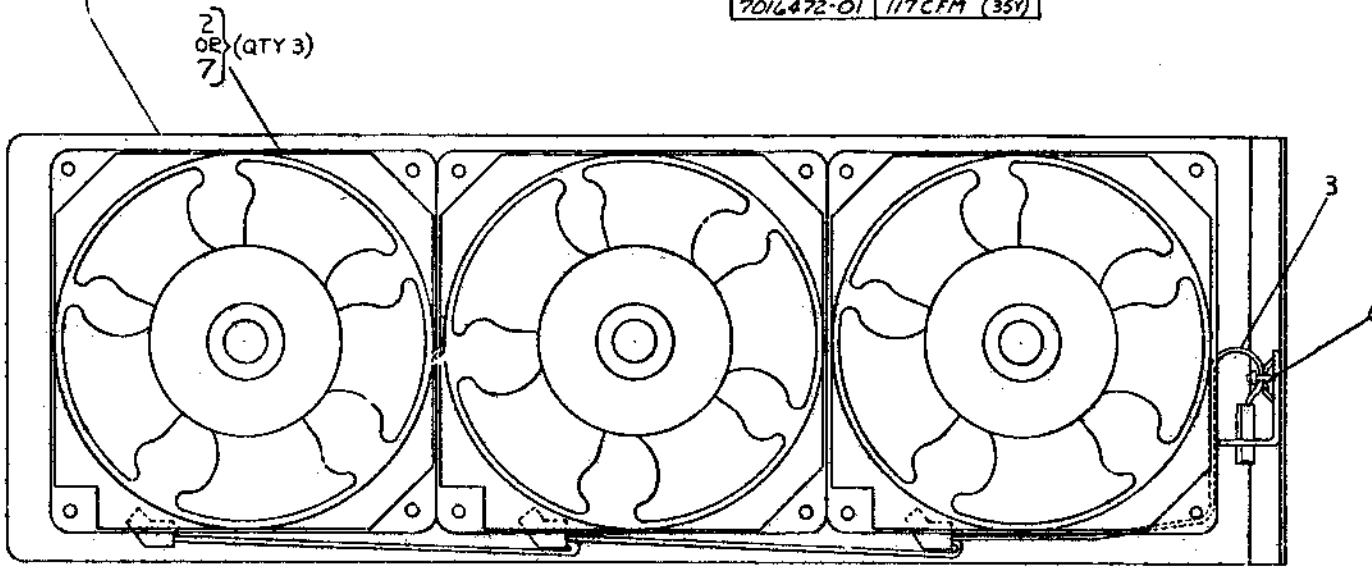
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LEGEND	
PART NUMBER	VAR.
7016472-00	110 CFM (35V)
7016472-01	117 CFM (35V)

0-0-226910Z 07 2



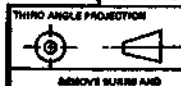
5 (QTY 12) 4 (QTY 12)



CAUTION: OFF SHEET PARTS LIST EXISTS, SEE K-PL-7016472-0-DBP, (MK1352, PLS).

4	TIE WRAP	9007031-00	5
12	SCREW TRUSS HD 3/32x62	9006025-03	5
12	CLIP FAN	9009165-00	4
1	CABLE FAN ASSEMBLY	D-AD-7016392-0-0	3
3	FAN, 35V, 70 HZ, SQ WAVE	1216569-00	2
1	FAN TRAY & BRKT ASSY	D-AD-7016376-0-0	1

DESCRIPTION	QTY	CHK. PART NOL.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLE OF SURF. 20°	CLASS OF ACCURACY	NORMAL DIMENSION RANGE TOLERANCES	
SURFACE QUALITY	FINISH	AS	1.00
		AA	0.50
QUANTITY & VARIATION	MICRONS	0.012	0.004
		0.008	0.003



DO NOT SCALE DWG

MATERIAL: E-AD-7016391-0-0  
SCALE: 1:1  
FINISH: -

DRN: W.F. 10/18/78	FIRST USED ON: BAI1-A
CHK'D: J.E. 10/18/78	TITLE: FAN TRAY ASSEMBLY
ENG. IN CHARGE: J.E. 10/18/78	SIZE: D
PROJ. ENG. IN CHARGE: J.E. 10/18/78	CODE: AD
DATE: 10/18/78	NUMBER: 7016472-0-0
SHEET: 1 OF 1	REV: D

REV.	BY	DATE	DESCRIPTION
1	W.R. HALL	10/18/78	INITIAL DESIGN
2	W.R. HALL	10/18/78	REVISED TO 110 CFM
3	W.R. HALL	10/18/78	REVISED TO 117 CFM
4	R. MORIN	10/18/78	REVISED TO 117 CFM
5	R. MORIN	10/18/78	REVISED TO 117 CFM
6	R. MORIN	10/18/78	REVISED TO 117 CFM
7	R. MORIN	10/18/78	REVISED TO 117 CFM
8	R. MORIN	10/18/78	REVISED TO 117 CFM

AUTOMATED BY VAXKPL (V1.1)

PARTS LIST

SHEET A1 OF A1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	Q0	Q1	QUANTITY PER VARIATION/REVISION
1	D-AD-7016376-0-0	70-16376-00		FAN TRAY + BRACKET ASSY	1	1	
2		12-16563-00		FAN TUBE AXIAL 4.5" 110CFM 35VAC	3	-	
3	A-PS-1700591-0-0	17-00591-02		CABLE ASSY FAN	1	1	
4		90-09165-00		CLIP FAN MOUNTING (12-05033 FAN)	12	12	
5		90-06023-03		SCREW MACH TRUSS PHIL 6-32	12	12	
6		90-07031-00		TIE CABLE BUNDL DIA 0- 3/4"=101	1	1	
7		12-16563-01		FAN TUBE AXIAL 4.5" 117CFM 35VAC	-	3	

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A		DRN: A-RUSZCZYK	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE: 26-APR-83	D I G I T A L		
		C	[CA] 00,01	CHK'D: T.MCCULLOUGH	TITLE PARTS LIST		
PM	7016472-MK003	D	[CH]	DATE: 26-APR-83	FAN TRAY ASSEMBLY		
			[CC]	DES.ENG: R. BOUDREAU	DOCUMENT NUMBER		
			[CD]	DATE: 26-APR-83	SIZE	CODE	NUMBER
			[CE]	RESP.ENG.: R.MORIN			REV
			[CF]	DATE: 26-APR-83	K	PL	7016472-0-DBP
			[CH]	MFG.ENG: J.AVILES	RELEASE DATE: 18-APR-86		
			[CJ]	DATE: 26-APR-83	RELEASE STATUS: RELEASED		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
7016472		D-AD-7016472-0-0		E-AD-7016391-0-0		MK1352D.PLS	
						EDIT #	
						1	

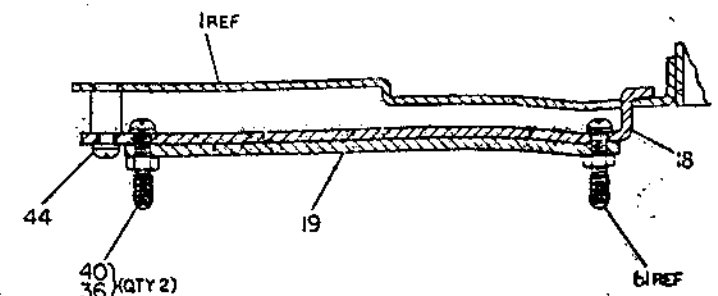
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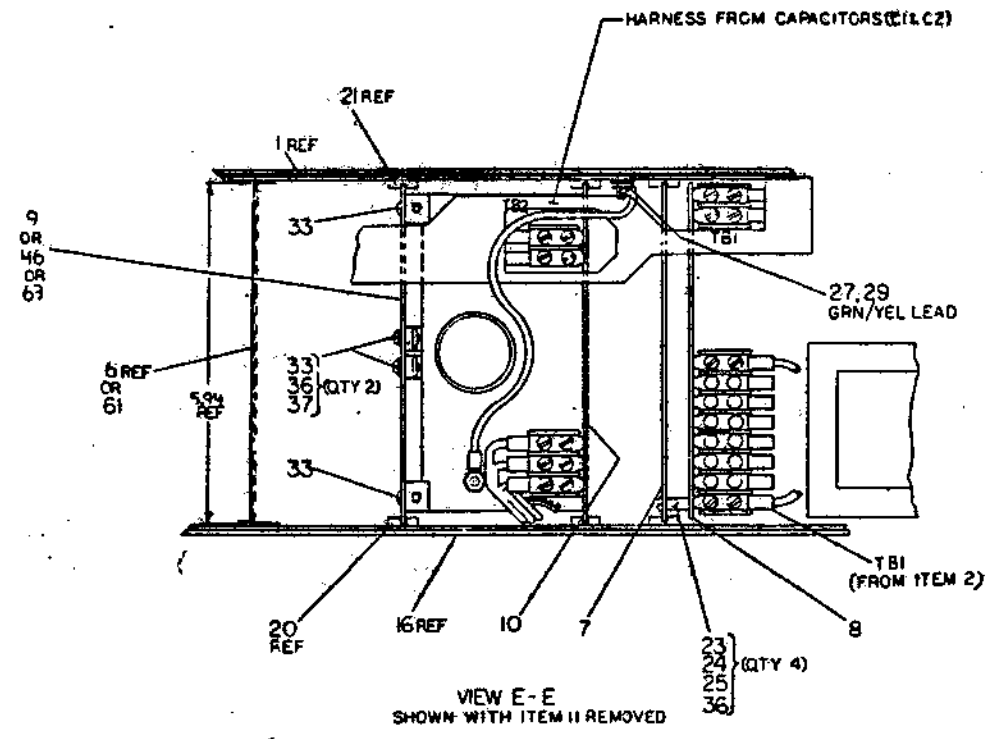
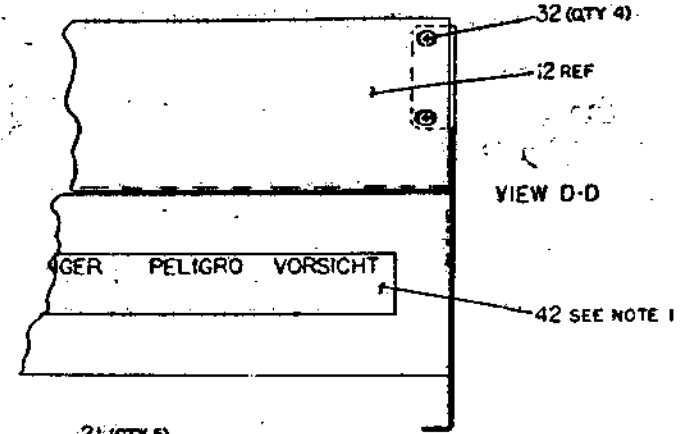




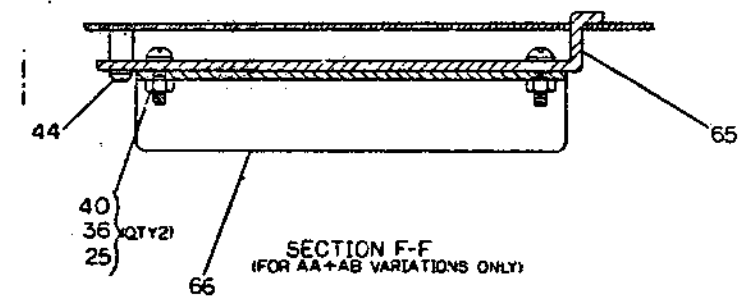
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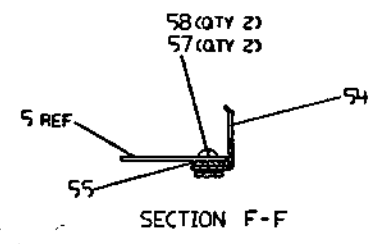
SECTION B-B  
SCALE: 2/1  
TYP 2 PLACES  
VARIATIONS BA, BB, CA, CB, DA + DB  
1 PLACE, VARIATIONS AA + AB



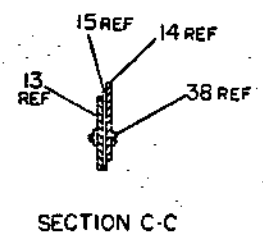
VIEW E-E  
SHOWN WITH ITEM 11 REMOVED



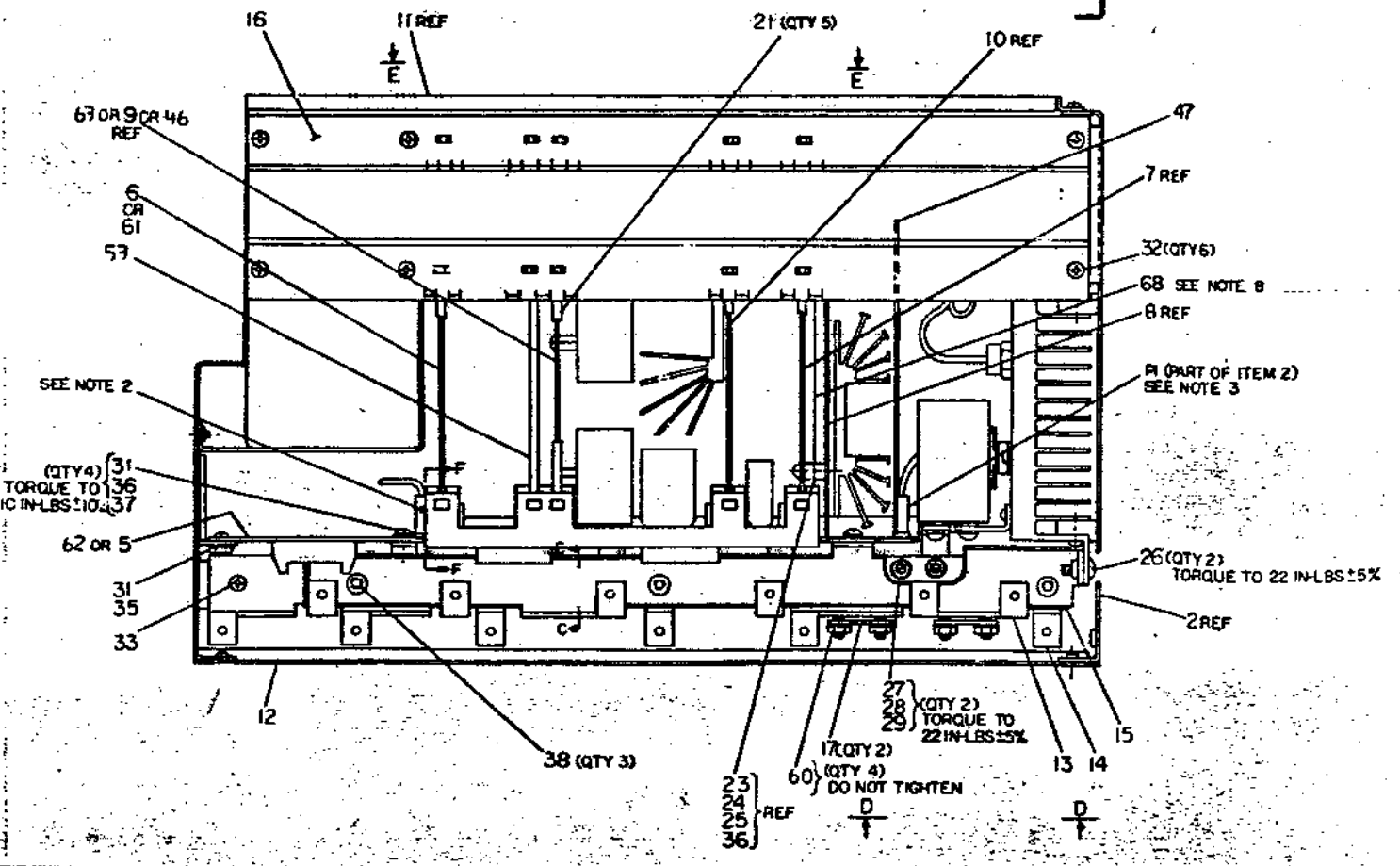
SECTION F-F  
(FOR AA + AB VARIATIONS ONLY)



SECTION F-F



SECTION C-C



AUTOMATED BY PRTLST.4Q(50)

PARTS LIST

SHEET A1 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION							
						AA	AB	BA	BB	CA	CB	DA	DB
						AA1	AA1	AA1	AA1	AB1	AB1	AA1	AA1
1	1	E-AD-7016476-0-0	7016476-00		INPUT ASSY.	1	1	1	1	1	1	1	1
2	2	E-AD-7016054-0-0	7016054-00		OUTPUT PANEL ASSY.	1	1	1	1	1	1	1	1
3	3	D-AD-7016478-0-0	7016478-00		AC CABLE ASSY	1	-	1	-	1	-	1	-
4	4	D-AD-7016478-1-0	7016478-01		2201 H7140 AB,AC, CABLE	-	1	-	1	-	1	-	1
5	5	E-UA-5413615-0-0	5413615-00		H7140 MOTHER BOARD	1	1	1	1	1	1	-	-
6	6	D-UA-5413605-0-0	5413605-00		BIAS AND INTERFACE BOARD FOR 111	1	1	1	1	-	-	1	1
7	7	D-UA-5413601-0-0	5413601-00		LOGIC INVERTER BD	1	1	1	1	1	1	1	1
8	8	D-UA-5413599-0-0	5413599-00		LOGIC INVERTER BD	1	1	1	1	1	1	1	1
9	9	D-UA-5413607-0-0	5413607-00		MEMORY REGULATOR BD	1	1	-	-	-	-	-	-
10	10	D-UA-5413603-0-0	5413603-00		MEMORY INVERTER BD	1	1	1	1	1	1	1	1
11	11	D-MD-7422396-0-0	7422396-00		TOP COVER	1	1	1	1	1	1	1	1
12	12	D-MD-7421436-0-0	7421436-00		COVER	1	1	1	1	1	1	1	1
13	13	D-MD-7422042-0-0	7422042-00		+5V BUS	1	1	1	1	1	1	1	1
14	14	D-MD-7422041-0-0	7422041-00		RETURN BUS	1	1	1	1	1	1	1	1
15	15	D-MD-7422044-0-0	7422044-00		BUS INSULATOR	1	1	1	1	1	1	1	1
16	16	D-MD-7425385-0-0	7425385-00		SHIELD	1	1	1	1	1	1	1	1
17	17	D-MD-7422731-0-0	7422731-00		MOUNTING BRACKET	2	2	2	2	2	2	2	2
18	18	C-MD-7423066-0-0	7423066-00		CABLE ROUTING BRKT.	1	1	2	2	2	2	2	2
19	19	B-MD-7423067-0-0	7423067-00		CABLE CLAMP	1	1	2	2	2	2	2	2
20	20	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
21	21		1212405-04		GUIDE,CARD ,NYLON ,NATURAL	10	10	10	10	10	10	10	10
22	22	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
23	23		9006844-00		SPACER,THREADED HEX ALUM 6-3	4	4	4	4	4	4	4	4
24	24		9007794-01		SCREW,MACH PAN PHIL 6-	4	4	4	4	4	4	4	4
25	25		9008957-00		NUT,HEX 6-32X .246AF SS/N	8	8	8	8	8	8	8	8
26	26		9010119-00		SCREW, TRUSS PHIL 10-	2	2	2	2	2	2	2	2
27	27		9009005-00		NUT,HEX 10-32X .246AF SS/N	3	3	3	3	3	3	3	3
28	28	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
29	29		9007906-00		WASHER,HELICAL SPLIT STEEL	3	3	3	3	3	3	3	3
30	30		9006037-01		SCREW,MACH PAN PHIL 8-	2	2	2	2	2	2	2	2

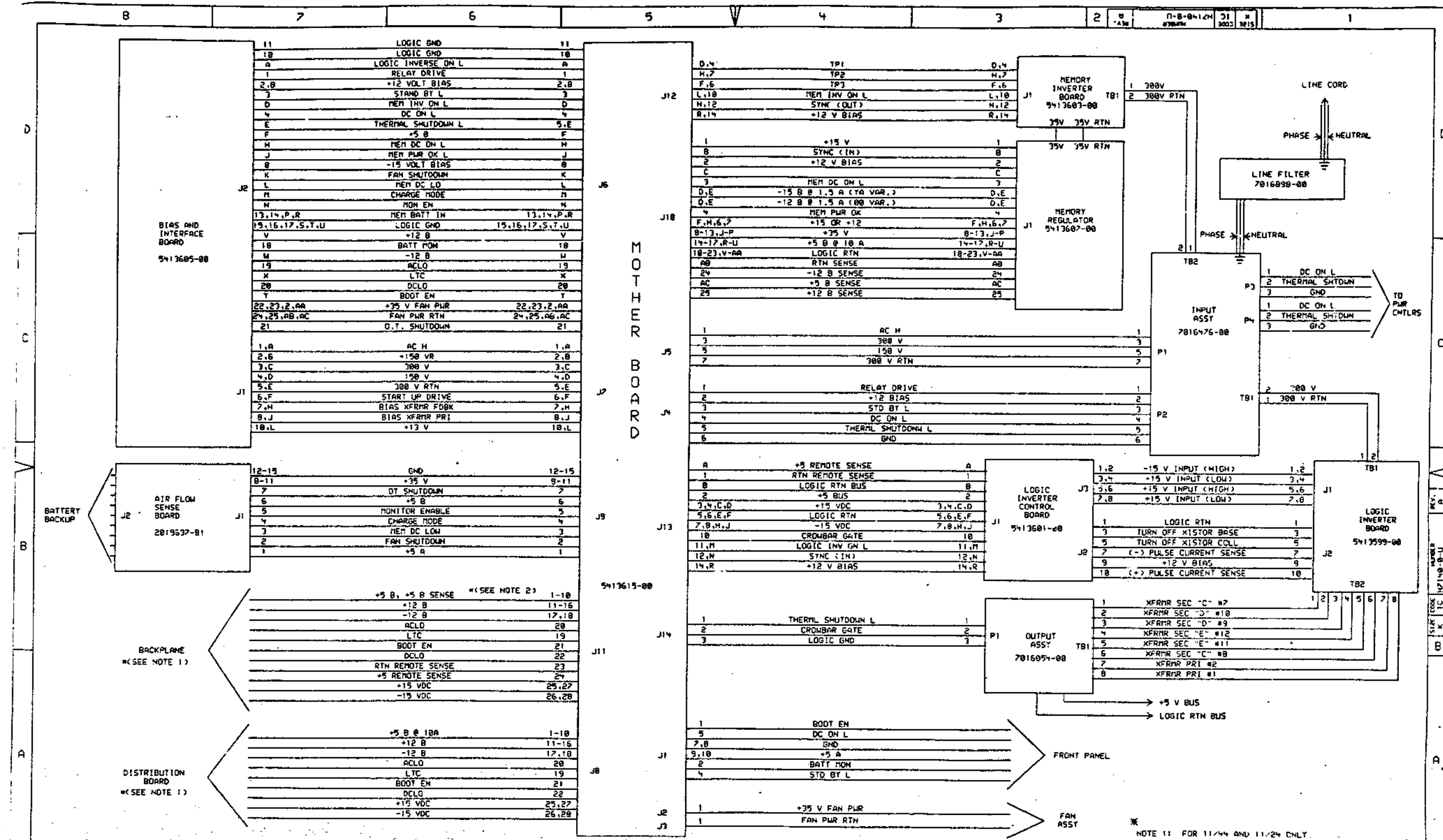
REVISION HISTORY			BASIC PART NO: H7140	DRN: A. MOWRY	DATE: 15-AUG-79	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: R. RILEY	DATE: 17-AUG-79	TITLE PARTS LIST H7140 UNIT ASSEMBLY			
!KK	!H7140-TW013	!N	SECTION VARIATION INDEX	DES.ENG: R. J. WOLF	DATE: 17-AUG-79	DOCUMENT NUMBER			
!AK	!H7140-TW014	!P	!A)AA,AB,BA,BB,CA,CB, DA,DB			SIZE	CODE	NUMBER	REV
!KK	!H7140-TW016	!R	!B)	RESP.ENG.: R. J. WOLF	DATE: 17-AUG-79	K	PL	H7140-0-DBP	AB
!PP	!H7140-TW018	!T	!C)	MFG.ENG.: F. MUNIZ	DATE: 17-AUG-79	RELEASE DATE: 14-AUG-85			
!CS	!H7140-TW019	!U	!D)	ASSEMBLY NUMBER: E-UA-H7140-0-0	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
!KK	!H7140-TW020	!V	!E)			Z2993B.PLS		33	
!KK	!H7140-TW021	!W	!F)						
!KK	!H7140-TW022	!Y							
!KK	!H7140-TW023	!Z							
!RW	!H7140-TW024	!AA							
!RW	!H7140-TW025	!AB							

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION							
						AA	AB	BA	BB	CA	CB	DA	DB
						AA1	AA1	AA1	AA1	AB1	AB1	AA1	AA1
31	31		9006022-01		SCREW,MACH PAN PHIL 6-	5	5	5	5	5	5	5	5
32	32		9009796-00		SCREW,THD RL,FLT PHIL F/METAL	14	14	14	14	14	14	14	14
33	33		9009708-00		SCREW,THD RL,PAN PHIL F/METAL	11	11	11	11	11	11	11	11
34	34		9006690-00		WASHER,HELICAL SPLIT SST	2	2	2	2	2	2	2	2
35	35		9009243-00		NUT,HEX EXT TOOTH LCKWSHR 6-32	1	1	1	1	1	1	1	1
36	36		9007801-00		WASHER,HELICAL SPLIT SST	14	14	14	14	14	14	14	14
37	37		9006656-00		WASHER,FLAT STEEL	6	6	6	6	6	6	6	6
38	38		9008212-00		SCREW,NYLN PAN SLOT 6-	3	3	3	3	3	3	3	3
39	39	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
40	40		9009587-01		SCREW,THD RL,PAN PHIL F/METAL	4	4	4	4	4	4	4	4
41	41	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
42	42		3615087-02		LABEL,"DANGER-HIGH CURRENT"	1	1	1	1	1	1	1	1
43	43		3616930-00		LABEL,DANGER STORED HIGH VOLTAGE	1	1	1	1	1	1	1	1
44	44		9009701-00		SCREW,SEMS PAN PHIL 6-	4	4	4	4	4	4	4	4
45	45	(SEE NOTE 1)	9009087-00		FOAM, TAPE, SINGLE SIDED 1/8 THK	0	0	0	0	0	0	0	0
46	46	D-UA-5413607-0-0	5413607-YA		MEMORY INVERTER BD.	-	-	1	1	1	1	-	-
47	47	B-MD-7424586-0-0	7424586-00		INSULATER, HEATSINK	1	1	1	1	1	1	1	1
48	48		3612063-00		LABEL, ADHESIVE I.D. FOR UL C	1	1	1	1	1	1	1	1
49	49		9009255-01		LABEL, POWER SUPPLY, 2-7/8" LG X	1	1	1	1	1	1	1	1
50	50		3613211-01		DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1	1	1	1
51	51	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
52	52	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
53	53	A-PS-2919637-0-0	2019637-B1		MODULE,AIR FLOW SENSOR (BURNED I	1	1	1	1	-	-	1	1
54	54		7425384-00		BRACKET,LOWER CARD GUIDE	1	1	1	1	1	1	1	1
55	55		7425386-00		INSULATOR,CARD GUIDE BRACKET	1	1	1	1	1	1	1	1
56	56		3617664-00		LABEL,H7140 MODULE REV	1	1	1	1	1	1	1	1
57	57		9006010-01		SCREW,MACH PAN PHIL 4-	2	2	2	2	2	2	2	2
58	58		9006557-00		NUT,HEX EXT TOOTH LCKWSHR 4-40	2	2	2	2	2	2	2	2
59	59		9010164-00		WASHER,FLAT SS	2	2	2	2	2	2	2	2
60	60		9006565-00		NUT,HEX EXT TOOTH LCKWSHR 10-32	4	4	4	4	4	4	4	4
61	61		9009731-00		CAP,WHT. VINYL .112 ID	4	4	4	4	4	4	4	4
62	62		5413605-YA		BIAS & INTERFACE BD	-	-	-	-	1	1	-	-
63	63		5413615-YA		H7140 MOTHER BOARD	-	-	-	-	-	-	1	1
64	64		5413607-YB		MEMORY REGULATOR BOARD	-	-	-	-	-	-	1	1
65	65	C-MD-7428675-0-DBU	7428675-01		BRACKET,CABLE ROUTING	1	1	-	-	-	-	-	-
66	67	C-MD-7428672-0-DBU	7428672-01		CLAMP,CABLE	1	1	-	-	-	-	-	-
67	66	A-PS-2019637-0-0	2019637-B2		MODULE,AIR FLOW SENSOR	-	-	-	-	1	1	-	-
68	68	A-PS-1700021-0-0	1700021-08		SHIELD,ELECTROMAG	1	1	1	1	1	1	1	1
69	69	D-AD-7016050-0-0	7016050-00		H7140 MEMORY SUPPORT ASSY	REF	REF	REF	REF	REF	REF	REF	REF
70	70	D-AD-7016057-0-0	7016057-00		H7140 +5V CONTROL ASSY	REF	REF	REF	REF	REF	REF	REF	REF

71 NOTE: 1) ITEMS 45, ALL VARIATIONS ARE 2.25.  
 72 NOTE: 2) ITEMS 69 AND 70 ARE FOR FIELD SERVICE USE ONLY.

D	I	G	I	T	A	L	TITLE	H7140 UNIT ASSEMBLY	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	H7140-0-DBP	AB



REV	DATE	DESCRIPTION
1	11/44	INITIAL ISSUE
2	11/44	REVISIONS

REV	DATE	DESCRIPTION
1	11/44	INITIAL ISSUE
2	11/44	REVISIONS

REV	DATE	DESCRIPTION
1	11/44	INITIAL ISSUE
2	11/44	REVISIONS

REV	DATE	DESCRIPTION
1	11/44	INITIAL ISSUE
2	11/44	REVISIONS

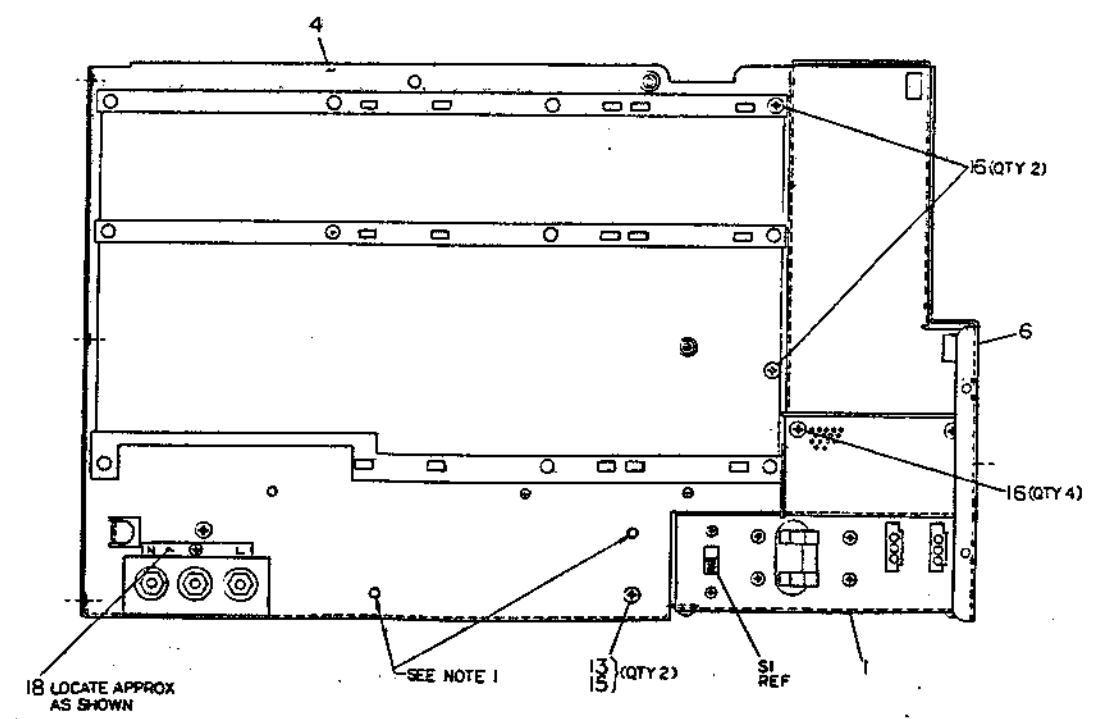
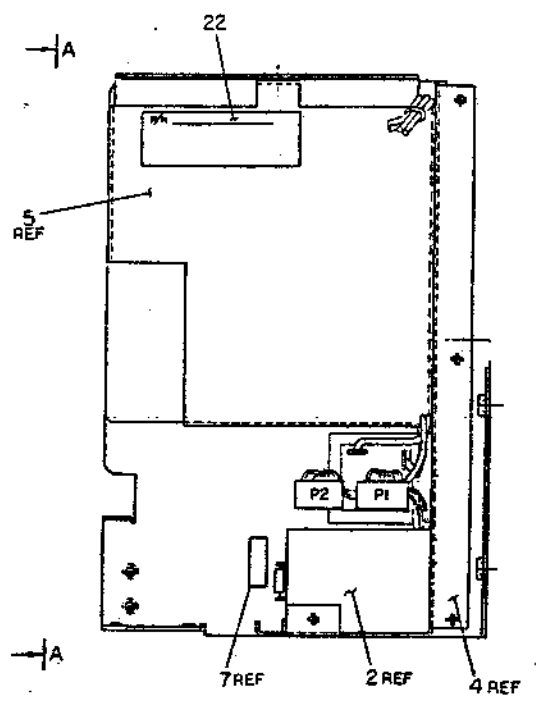
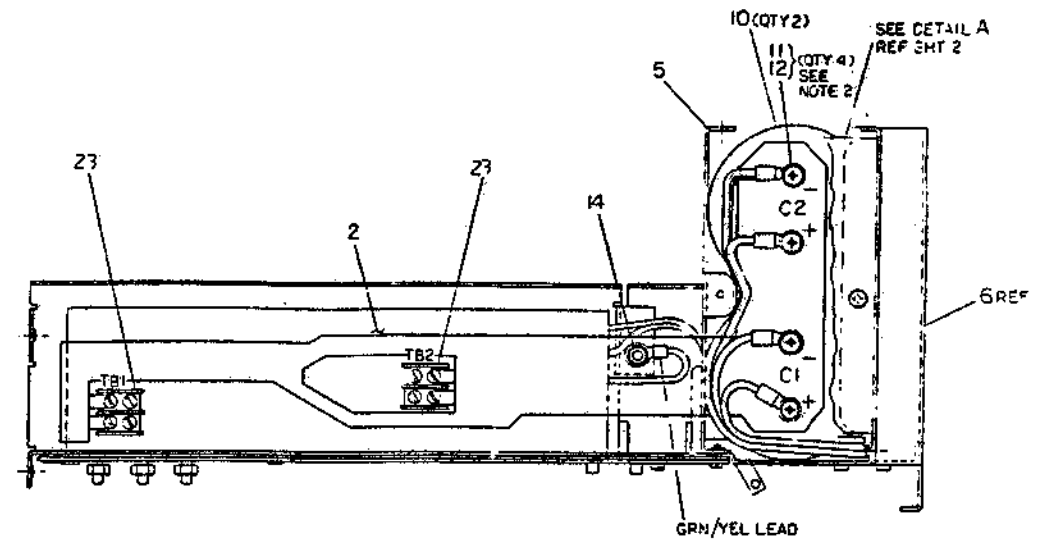
REV	DATE	DESCRIPTION
1	11/44	INITIAL ISSUE
2	11/44	REVISIONS

TITLE: H7140 INTERCONNECT DRWG  
 DATE: 11/44  
 ENGINEER: P. HEBERT  
 CHECKED: [Signature]  
 DATE: 11/44  
 BOARD LOCATION: [Blank]  
 SHEET: 1 OF 1  
 SIZE: K IC H7140-0-J  
 FIRST USED ON OPTION/MODEL: H7140-AA/AB

NOTE 1: FOR 11/44 AND 11/24 ONLY  
 NOTE 2: SIGNALS TIED TOGETHER IN BACKPLANE

1979

NOTE  
 1. DO NOT INSTALL HARDWARE IN THESE HOLES.  
 2. TORQUE TO 16 IN-LB ±10%.



CAUTION: OFF SHEET PARTS LIST  
 SEE 3-PL-706476-0-0

REV	DESCRIPTION	DATE	BY	CHECKED	APP'D
1	INITIAL ISSUE				
2	REVISED TO ADD PARTS LIST				

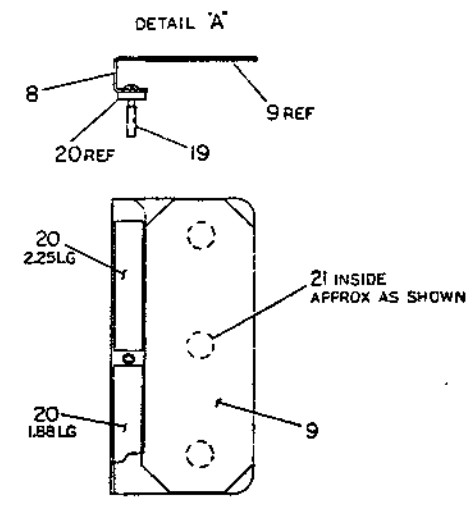
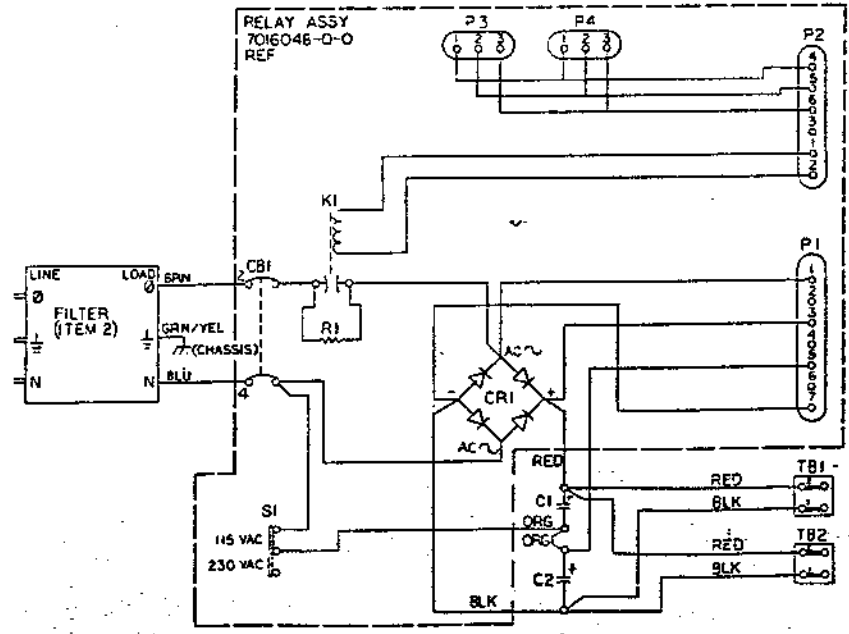
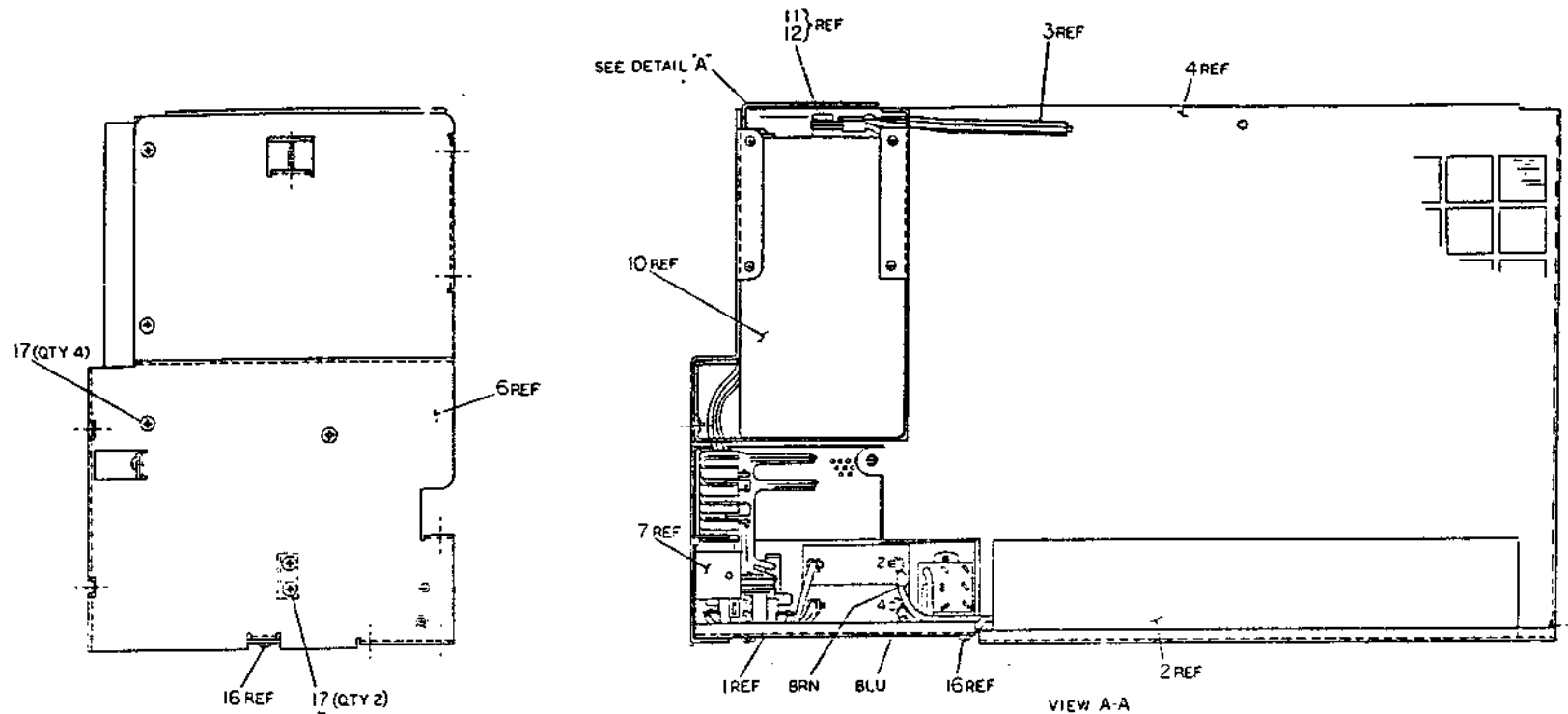
SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST

SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST

SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.  
DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.  
DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.



INPUT ASSY  
AD706476-0-0



# DIGITAL EQUIPMENT CORPORATION PARTS LIST

MADE BY DATE	A. MCWRY 04-09-79	CHECKED DATE	SECTION
ENG DATE	Robert J. Wolf 8-10-79	PROQ DATE	ISSUED SECTION
		MUNIZ 9/10/79	

## QUANTITY / VARIATION

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	UNIT	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION
1	E-AD-7016048-0-0	7016048-00	RELAY ASSY	1									
2	C-IA-7016898-0-0	7016898-00	FILTER, RFI, ASSY	1									
3		1700245-00	CIRCUIT FLEX. FLAT POWER	1									
4	D-IA-7016926-0-0	7016926-00	CHASSIS ASSY, REAR	1									
5	D-MD-7421433-0-0	7421433-00	BRACKET, CAPACITOR	1									
6	D-MD-7421438-0-0	7421438-00	PANEL, SIDE	1									
7	B-MD-7423546-0-0	7423546-00	BLOCK, MTG	1									
8	B-MD-7422382-0-0	7422382-00	CLAMP, CAPACITOR	1									
9	B-MD-7422401-0-0	7422401-00	INSULATOR, CAPACITOR	1									
10		1014336-00	CAPACITOR, 4500 uf/200 VDC, EV	2									
11		9006072-01	SCR, PHL PAN HD SS #10-32 x .438 LG	4									
12		9007906-00	WASHER, SPLIT, LOCK #10	4									
13		9006037-01	SCR, PHL PAN HD SS #8-32 x .375 LG	2									
14		9006565-00	NUT, KEP CS/CAD #10-32 x 3/8 AF	1									
15		9006690-00	WASHER, SPLIT, LOCK #8	2									
16		9009708-00	SCREW, PHL PAN HD SELF TAP #6-32 x .312	6									
17		9009796-00	SCR, PHL FLAT HD SELF TAP #6-32 x .250	6									
18		3617016-00	LABEL, N-GROUND-L	1									
19		9010133-00	SCREW, PHILL PAN HD #8-32 x .88 LG	1									
20		9009342-00	FOAM TAPE ADH. BACK .50 x .125	.35	FT								
21		9009157-00	ADHESIVE, PERMABOND #101	A/R									
22		9009255-00	LABEL, POWER SUPPLY	1									
23		12166 3-00	BLOCK, TERM, HIGH BARRIER	2									

REF DESIGNATION

E.C.O. NO.  
H7140-  
TW001  
H7140-  
TW021

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TITLE  
INPUT ASSY

ASSY NO.  
E-AD-7016476-00  
SHEET 1 OF 1

SIZE CODE  
**B PL**  
NUMBER  
7016476-0-0  
INSERTION PARTS LIST DATA BASE REV

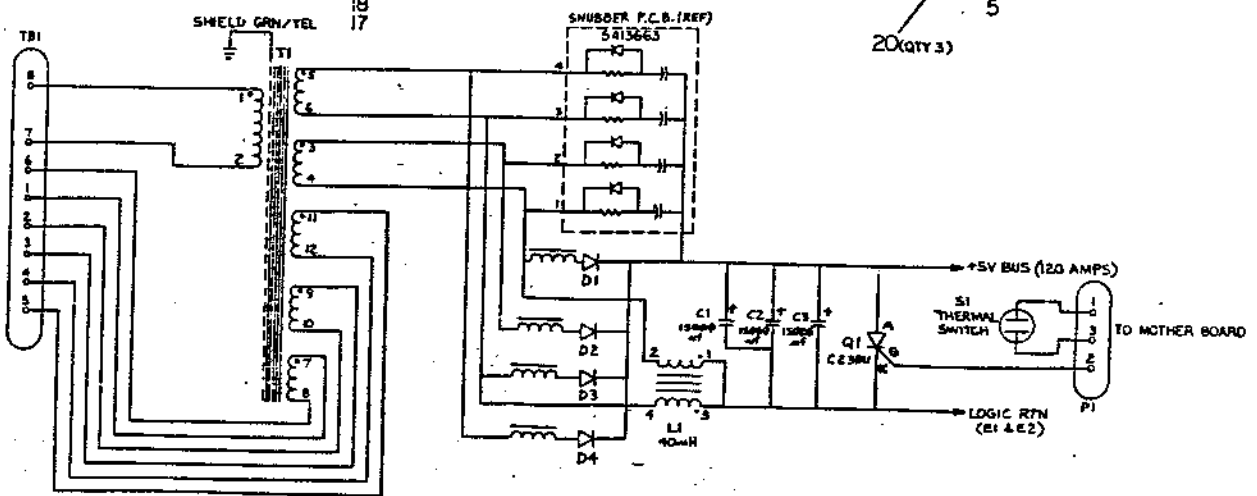
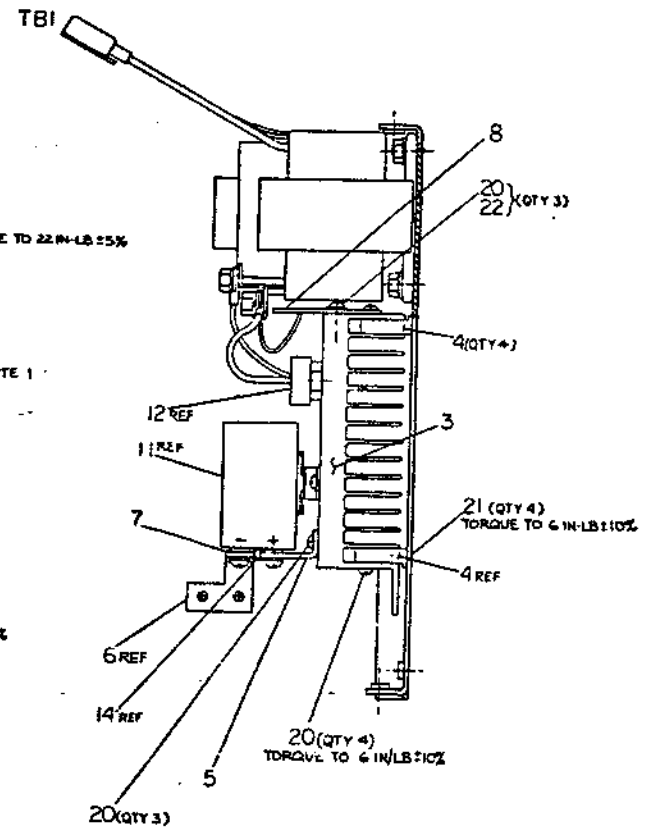
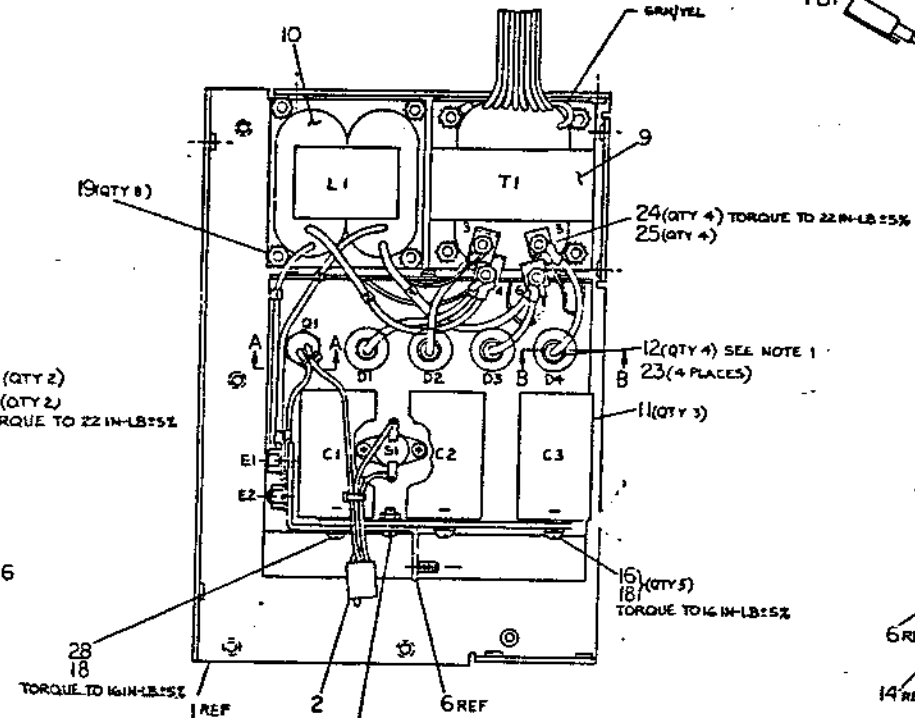
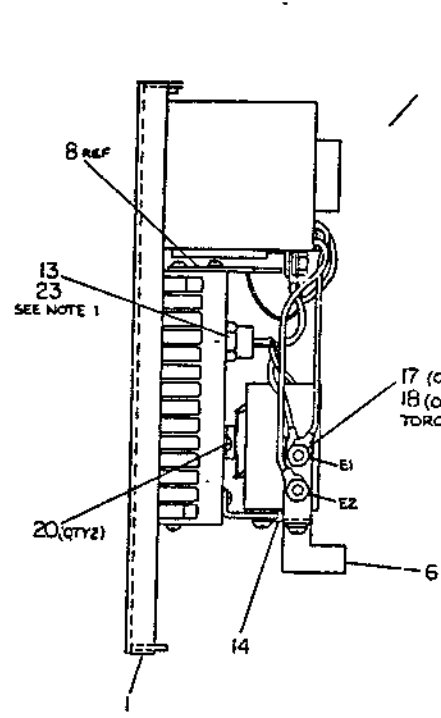
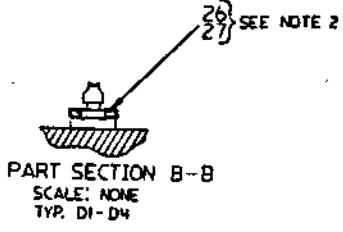
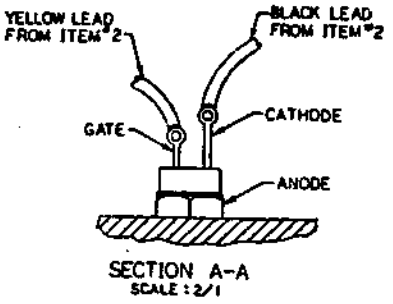
REV.  
**B**

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INTERCONNECTION TABLE		REMARKS
FROM	TO	
D1	T1-4	
L1-2	T1-4	
WIRE #1 ITEM 8	T1-5	
D2	T1-5	
WIRE #2 ITEM 8	T1-6	
D3	T1-6	
L1-4	T1-6	
WIRE #3 ITEM 8	T1-5	
D4	T1-5	
WIRE #4 ITEM 8	MTD STUD	
T1-GRN/YEL	Q1-GATE	
YEL LEAD ITEM 2	E1	
BLK LEAD ITEM 2	E1	
Q1-CATHODE	E1	
L1-3	E2	
L1-1	E2	

PART NUMBER/PART REV  
7016054-00 C1

NOTES:  
1. ITEMS 12 & 13 (DI-D4 & D1) MUST BE SEATED ON HEATSHINK (ITEM 9). USE ITEM 23 UNDER ITEMS 12 & 13. TORQUE TO 25-40 LBS MIN. UNTIL FULLY SEATED.  
2. APPLY ITEM 26, 4 PLACES DI THRU USING ITEM 27.



ITEM NO.	DESCRIPTION	QTY	UNIT
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CAUTION: OFF SHEET, PARTS LIST  
SEE K-PL-7016054-0-DBP (2494)

ITEM NO.	DESCRIPTION	QTY	UNIT
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99	...	...	...
100	...	...	...

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:	00		
						C1		
1	1	D-MD-7421434-0-0	7421434-00		PANEL, SIDE	1		
2	2	D-IA-7016511-0-0	7016511-00		OVER TEMP CABLE ASSY	1		
3	3		1216648-00		HEAT SINKS, 05.62X05.3	1		
4	4		1216965-00		BLOCK, MTG INSULATED	4		
5	5	B-MD-7422038-0-0	7422038-00		CAP,BRKT POS	1		
6	6	B-MD-7422037-0-0	7422037-00		RETURN BUS BRKT	1		
7	7	B-MD-7422036-0-0	7422036-00		CAP,BRKT NEG	1		
8	8	D-UA-5413663-0-0	5413663-00		SNUBBER BOARD	1		
9	9	C-IA-7016056-0-0	7016056-00		TRANSFORMER ASSY	1		T1
10	10	C-IA-7016055-0-0	7016055-00		CHOKE ASSY	1		L1
11	11		1014338-00		15,000 MFD 7.5V 20% AL EL	3		C1,C2,C3
12	12		1117833-00		SCHOTTKY PIV= 45 IO=75.00A	4		D1,D2,D3,D4
13	13		1109978-00		SCR PIV= 25 IO=25.00A	1		Q1
14	14	(SEE NOTE 1)	9007036-00		GROMMET,CATERPILLAR POLYAMIDE	0		
15	15		9006071-01		SCREW,MACH PAN PHIL 10-	1		
16	16		9006070-01		SCREW,MACH PAN PHIL 10-	5		
17	17		9009005-00		NUT,HEX 10-32X .246AF SS/N	3		
18	18		9007906-00		WASHER,HELICAL SPLIT STEEL	9		
19	19		9006563-00		NUT,HEX EXT TOOTH LCKWSHR 8-32	8		
20	20		9009708-00		SCREW,TAP PAN PHIL THD RL 6-	12		
21	21		9010369-01		SCREW,TAP FLAT PHIL THD RL 6-	4		
22	22		9009882-00		WASHER,LOCK INTERNAL SST	3		
23	23		9008 268-00		COMPOUND, THERMAL JOINT	A/R		
24	24		9006561-00		NUT,HEX 8-32X .307AF SS/N	4		
25	25		9006690-00		WASHER,HELICAL SPLIT SST	4		
26	26		1620201-01		CORE,POWDER IRON .9420DX,560IDX.	4		
27	27		4901462-00		ADHESIVE/SEALANT,SILICONE RUBBER	A/R		
28	28		9006072-01		SCREW,MACH PAN PHIL 10-	1		

REVISION HISTORY			BASIC PART NO: 7016054		DRN: A.RUSZCZYK		DATE: 14-JUL-82		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	T.MCCULLOUGH	DATE:	14-JUL-82	TITLE	PARTS LIST	
---	INITIAL	A	SECTION VARIATION INDEX	DES.ENG:	R.WOLF	DATE:	14-JUL-82	DOCUMENT NUMBER		
KK	7016054-TW002	B	[A] 00	RESP.ENG.:	K.KNOWLES	DATE:	14-JUL-82	!SIZE!	!CODE!	!NUMBER!
KK	7016054-TW003	C	[B]	MFG.ENG.:	C.ROLDAN	DATE:	14-JUL-82	!RELEASE DATE!	01-NOV-84	
			[C]	ASSEMBLY NUMBER:	E-AD-7016054-0-0	TOP DOCUMENT NUMBER:	E-UA-H7140-0-0	FILE NAME:	Z4494C.PLS	
			[D]					EDIT #		
			[E]							
			[F]							
			[G]							
			[H]							
			[I]							
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AUTOMATED BY PRTLST,3P(44)

PARTS LIST

SHEET A2 OF A2

LINE ITEM TOP DOCUMENT\_\_\_\_\_

MIN  
PART NUMBER REV DESCRIPTION

QTY PER VARIATION  
00

REFERENCE DESIGNATOR

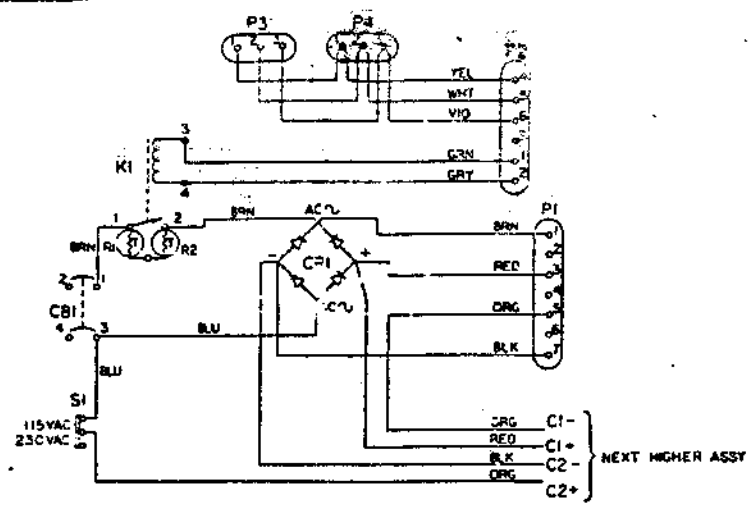
VARIATION REVISION LEVEL: C1

29 NOTE: 1. QUANTITY FOR ITEM NUMBER 14 IS .33 FT.

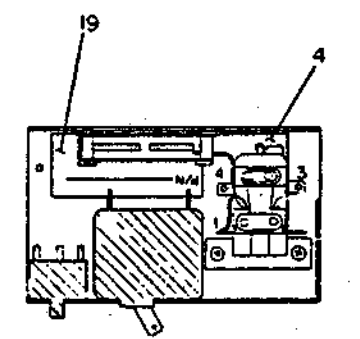
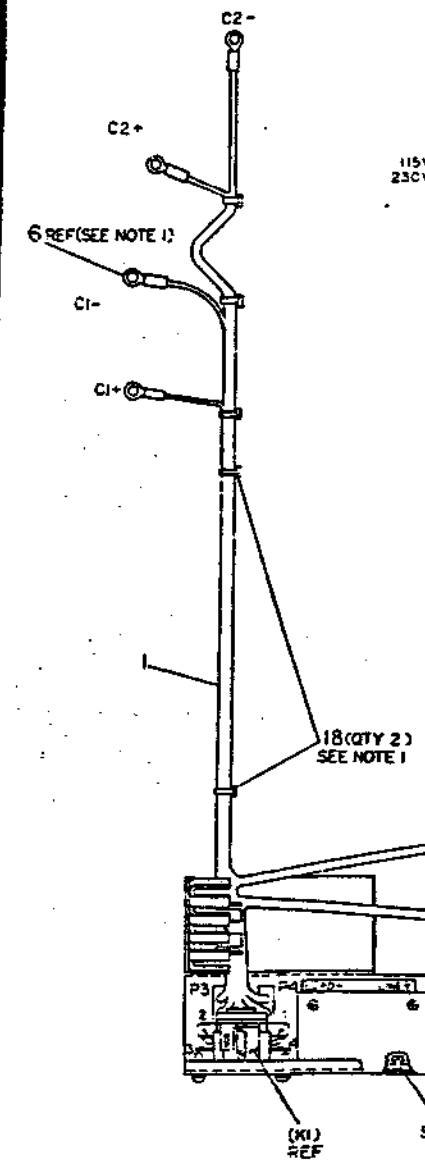
D I G I T A L	TITLE OUTPUT PANEL ASSEMBLY	SECTION A OF A	SIZE 11 PL	CODE 7016054	DOCUMENT NUMBER	REV C PL
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NOTES:  
 1. PRESS CRG LEAD OF ITEM 15 HARNESS BODY AND LAY IN WITH HARNESS BODY. USE ITEM 14 GABLE THIS APPROX WIRE SHOWN.

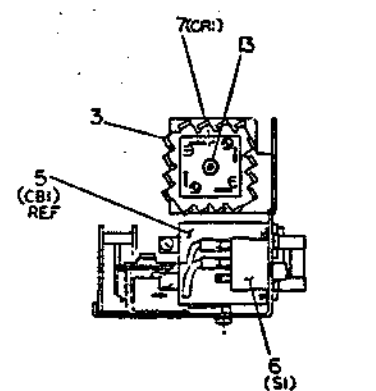
1. RELAY ASSEMBLY  
 2. RELAY ASSEMBLY  
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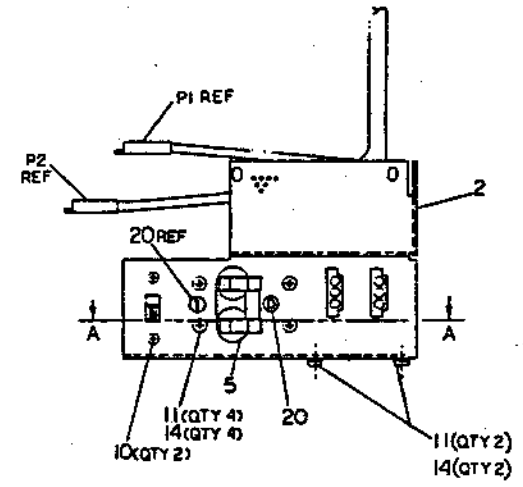
WIRING DIAGRAM



SECTION A-A



VIEW SHOWN WITH ITEM 1 (HARNESS) REMOVED FOR CLARITY



CAUTION: OFF SHEET PARTS LIST  
 SEE K-PL-7016048-D-00P

QTY	DESCRIPTION	REF	NOTE
1	RELAY ASSEMBLY	P1	
2	RELAY ASSEMBLY	P2	
3	RELAY ASSEMBLY	3	
4	RELAY ASSEMBLY	4	
5	RELAY ASSEMBLY	5	
6	RELAY ASSEMBLY	6	
7	RELAY ASSEMBLY	7	
8	RELAY ASSEMBLY	8	
9	RELAY ASSEMBLY	9	
10	RELAY ASSEMBLY	10	
11	RELAY ASSEMBLY	11	
12	RELAY ASSEMBLY	12	
13	RELAY ASSEMBLY	13	
14	RELAY ASSEMBLY	14	
15	RELAY ASSEMBLY	15	
16	RELAY ASSEMBLY	16	
17	RELAY ASSEMBLY	17	
18	RELAY ASSEMBLY	18	
19	RELAY ASSEMBLY	19	
20	RELAY ASSEMBLY	20	

# U01

AUTOMATED BY PRTLST.3P(44)

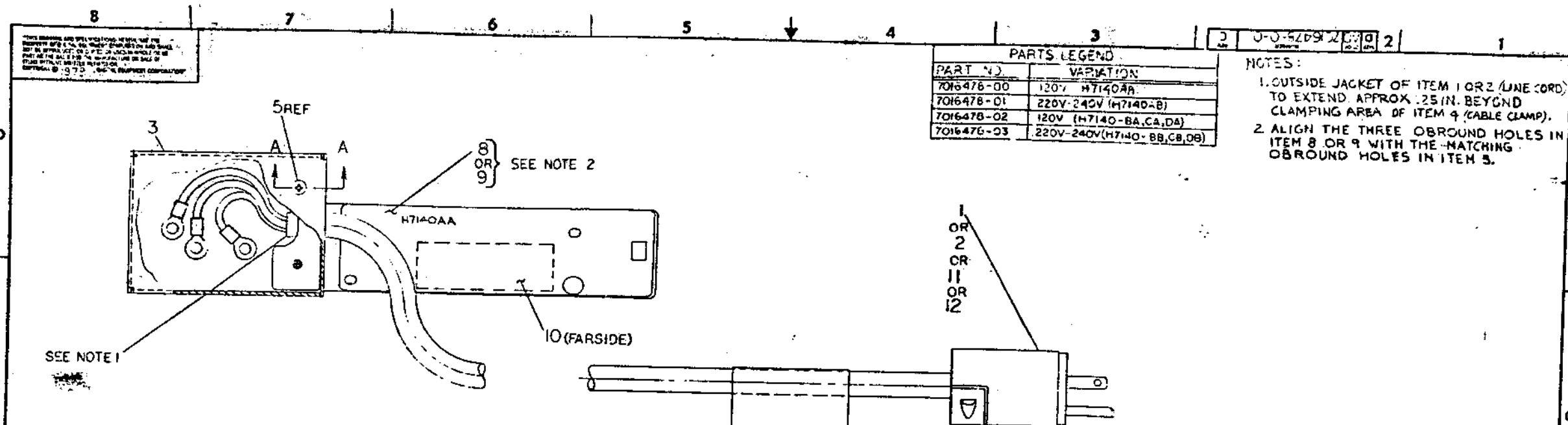
## P A R T S L I S T

SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
					00
1	1	D-IA-7016049-0-0	7016049-00	AC HARNESS ASSY	1
2	2	D-MD-7422040-0-0	7422040-00	INPUT BRKT	1
3	3		1216688-00	HEAT SINK, 1.810X01.8	1
4	4	D-AD-7018800-0-0	7018800-00	RELAY SUB ASSY. (H7140)	1
5	5		1212124-01	CKT BKR 20.0 A 240V 2P SERIES TR	1
6	6	C-IA-7016923-0-0	7016923-00	SWITCH ASSY	1
7	7		1116216-00	FWRB600V I=30A	1
8	8	BLANK		*** THIS ITEM IS NOT USED ***	-
9	9	BLANK		*** THIS ITEM IS NOT USED ***	-
10	10		9000039-06	SCREW,MACH FLAT PHIL 4-	2
11	11		9006020-01	SCREW,MACH PAN PHIL 6-	6
12	12	BLANK		*** THIS ITEM IS NOT USED ***	-
13	13		9009243-00	NUT,HEX EXT TOOTH LCKWSHR 6-32	1
14	14		9007801-00	WASHER,HELICAL SPLIT SST	6
15	15	BLANK		*** THIS ITEM IS NOT USED ***	-
16	16	BLANK		*** THIS ITEM IS NOT USED ***	-
17	17	BLANK		*** THIS ITEM IS NOT USED ***	-
18	18		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"-101	3
19	19		9009255-00	LABEL, POWER SUPPLY, 2-15/16 " L	1
20	20		3615680-00	LABEL,ADHESIVE BACK,SWITCH POSIT	1

REVISION HISTORY		BASIC PART NO: 7016048		DRN: A.RUSZCZYK	DATE: 22-SEP-82	D I G I T A L				
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: T.MCCULLOUGH	DATE: 22-SEP-82	TITLE		PARTS LIST		
	INITIAL	A	SECTION. VARIATION INDEX			RELAY ASSY				
			[A] 00	DES.ENG.: R.WOLF	DATE: 22-SEP-82					
			[B]	RESP.ENG.: K.KNOWLES	DATE: 22-SEP-82	DOCUMENT NUMBER				
			[C]	MFG.ENG.: J.AVILES	DATE: 22-SEP-82	SIZE	CODE	NUMBER	REV	
			[D]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	K	PL	7016048-0-DBP	A	
			[E]	B-PL-7016048-0-0	E-AD-7016048-0-0	FILE NAME:		EDIT #		
			[F]			Z5521A.PLS		2		

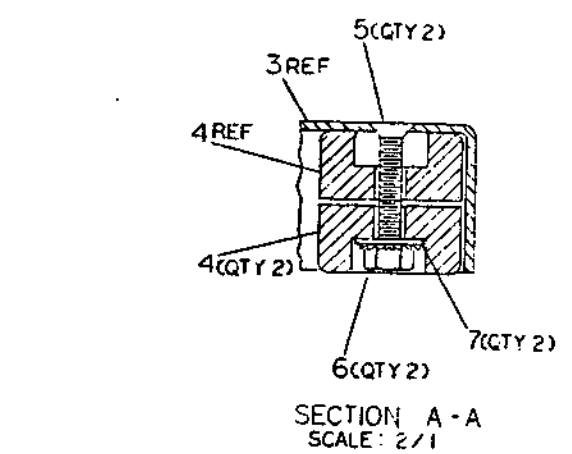
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PARTS LEGEND	
PART NO.	VARIATION
7016478-00	120V (H7140AA)
7016478-01	220V-240V (H7140-B)
7016478-02	120V (H7140-BA,CA,DA)
7016478-03	220V-240V (H7140-BB,CB,DB)

NOTES:  
 1. OUTSIDE JACKET OF ITEM 1 OR 2 (LINE CORD) TO EXTEND APPROX. 25 IN. BEYOND CLAMPING AREA OF ITEM 4 (CABLE CLAMP).  
 2. ALIGN THE THREE OBOUNDED HOLES IN ITEM 8 OR 9 WITH THE MATCHING OBOUNDED HOLES IN ITEM 5.



CAUTION: SEE OFF SHEET PARTS LIST K-PL-7016478-0-DBP, (25524)

REV.	DATE	DESCRIPTION
1	10/1/68	INITIAL DESIGN
2	10/1/68	REVISED TO SHOW CHANGES
3	10/1/68	REVISED TO SHOW CHANGES
4	10/1/68	REVISED TO SHOW CHANGES
5	10/1/68	REVISED TO SHOW CHANGES

QTY	DESCRIPTION	DWG PART NO.	ITEM NO.
1	LABEL, PWR SUPPLY	3009255-00	10
1	LABEL, H7140AB (210-240V)	3016977-01	9
1	LABEL, H7140AA (120V)	3016977-02	8
2	WASHER, FLAT, 3/16" DIA, 1/8" THK	9006560-00	7
2	NUT, NIP, #8-32 X 1/2"	9006563-00	6
2	SCR, FLAT, PHIL #8-32 X 1/2"	9006562-00	5
2	CLAMP, CABLE	1016566-00	4
1	COVER, A.C.	D-MO-7016478-0	3
1	CORD ASSY. LINE (220-240V)	D-1A-7016478-1	2
1	CORD ASSY. LINE (120V)	D-1A-7016478-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
CLASS OF FINISH	NOMINAL DIMENSIONS
ASSEMBLY	SEE DIMENSIONS
CASTING	SEE DIMENSIONS
FORGING	SEE DIMENSIONS
MACHINING	SEE DIMENSIONS
WELDING	SEE DIMENSIONS
OTHER	SEE DIMENSIONS

QUANTITY & VARIATION	DESCRIPTION	DWG PART NO.	ITEM NO.
1	CORD ASSY. LINE (120V)	D-1A-7016478-0	1

DATE	BY	TITLE
10/1/68	H7140	POWER CORD ASSY

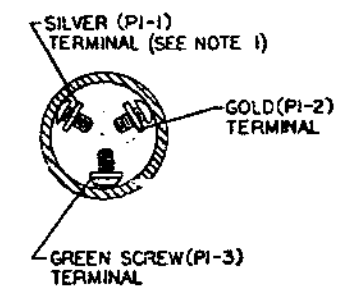
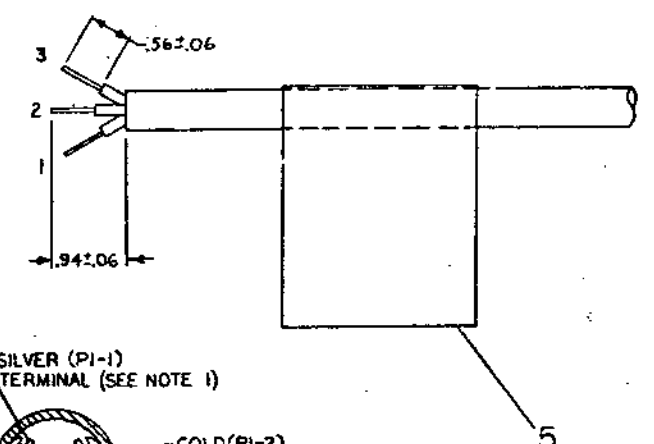
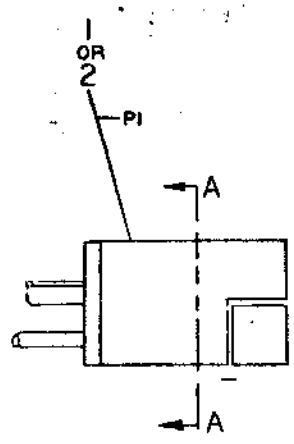
MATERIAL	FINISH	SCALE	SHEET	OF	DIST.
E-1A H7140-0-0		1/1	1	1	

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WIRING TABLE								
ITEM	DESCRIPTION	TO			FROM			LENGTH
		AWG	COLOR	POINT CONNECTION	WITH	POINT CONNECTION	WITH	
3	14 GRN/YEL		CI-1	PI-3	---	CI-6	---	9' 5.0 ± 2.0"
3	14 BLU		CI-2	PI-1	---	CI-5	---	9' 4.0 ± 2.0"
3	14 BRN		CI-3	PI-2	---	CI-4	---	9' 4.0 ± 2.0"

PARTS LEGEND	
PART NUMBER	VARIATION
7016907-00	120V
7016907-01	220V 240V

NOTES:  
 1. TERMINAL PI-1 SILVER ON 120V (1215183-00), VARIATION ONLY. ON 230V VARIATIONS 9008853-00, PI-1 & PI-2 ARE GOLD.  
 2. AFTER ASSY, COIL ITEM 3, (PWR CORD) 3 TIMES LEAVING ENDS APPROX 18 INCHES EACH SIDE. CABLE TIE COILS TOGETHER USING ITEM 7.



QTY	ITEM NO.	DESCRIPTION	DWG PART NO.	ITEM NO.
3	3	CABLE TIE SSTI-M	9007031-00	7
1	1	LABEL, CABLE IDENT.	9009532-00	6
1	1	LABEL, AC LINE CORD WARNING	3611448-00	5
3	3	TERM. RING, 1 POS, INS, 14AWG	9007928-00	4
1	1	POWER CORD, 14-3, 15A, 3C0V	1700027-01	3
1	1	CONN, PWR PLUG NEMA 6-15P	9008853-00	2
1	1	CONN, PWR PLUG NEMA 5-20P	1215183-00	1

7016907-01	7016907-00	DESCRIPTION	DWG PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
ANGLE OF APPROX 30°	CLASS OF SURFACE QUALITY	NOMINAL DIMENSION RANGE MICRONS		
FINISH	CHECK ONE	0.25	0.50	1.00
QUALITY	IN	0.25	0.50	1.00
QUANTITY & VARIATION	MICROMILES	PREFERRED	0.25	0.50
THIRD ANGLE PROJECTION	URL: 7/10/79	5.4.77	FIRST USED ON	17140
REMOVE BURRS AND BREAK SHARP CORNERS	CHKD: [Signature]	7/20/79	TITLE	LINE CORD ASSY
DO NOT SCALE DWG	ENGR: [Signature]	7-11-79	SIZE	D
NEXT HIGHER ASSY.	PROD. F. [Signature]	7-11-79	SCALE	NONE
MATERIAL SEE PARTS LIST	FINISH	1 OF	SHEET	1
SCALE	SIZE	CODE	NUMBER	REV.
D-AD-7016-478-0-0	D	AD	7016907-0-0	*



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED  
 ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED  
 THE DIMENSIONS OF THE PARTS ARE TO BE AS SHOWN IN THIS DRAWING

\* 0-0-5413663-0-0 2

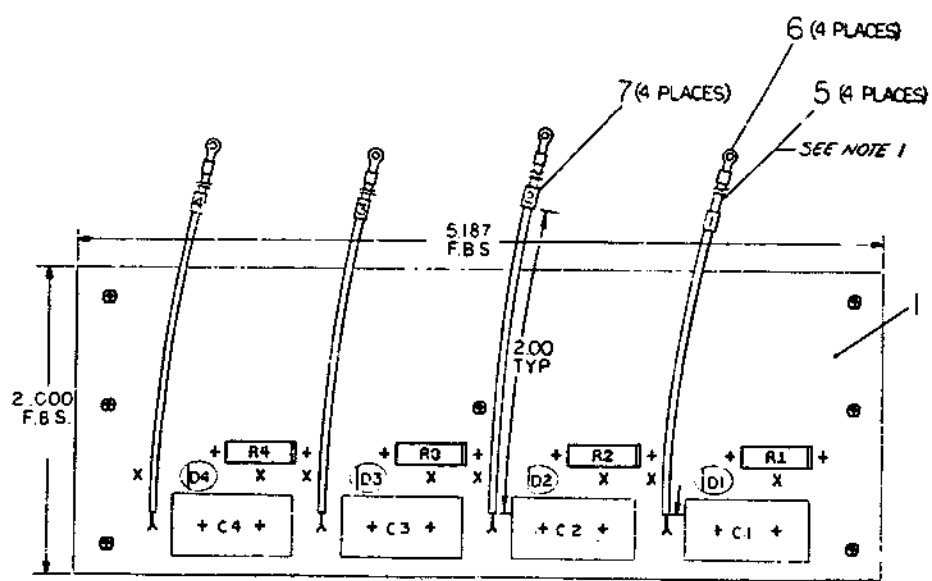
COMPONENT SIDE VIEW

D

C

B

A



NOTES: 1. WIRE (ITEM 5) SHOULD BE PRECUT TO 4" LENGTHS (4 PIECES REQUIRED)

CHANGE NO. REV.


ETCH REV. A
P.C. DESIGN DATA BASE REV. A

SIGNATURES	DATE
DRN. <i>[Signature]</i>	7-7-78
CHK'D. <i>[Signature]</i>	
ENG. <i>[Signature]</i>	6-24-78
PROJ. ENG. <i>[Signature]</i>	7-15-78

TITLE		digital	
H714C			
SNUBBER BOARD			
SIZE	CODE	NUMBER	REV.
0	UA	5413663-0-0	*

NEXT HIGHER ASSY. B-00-5413663-C

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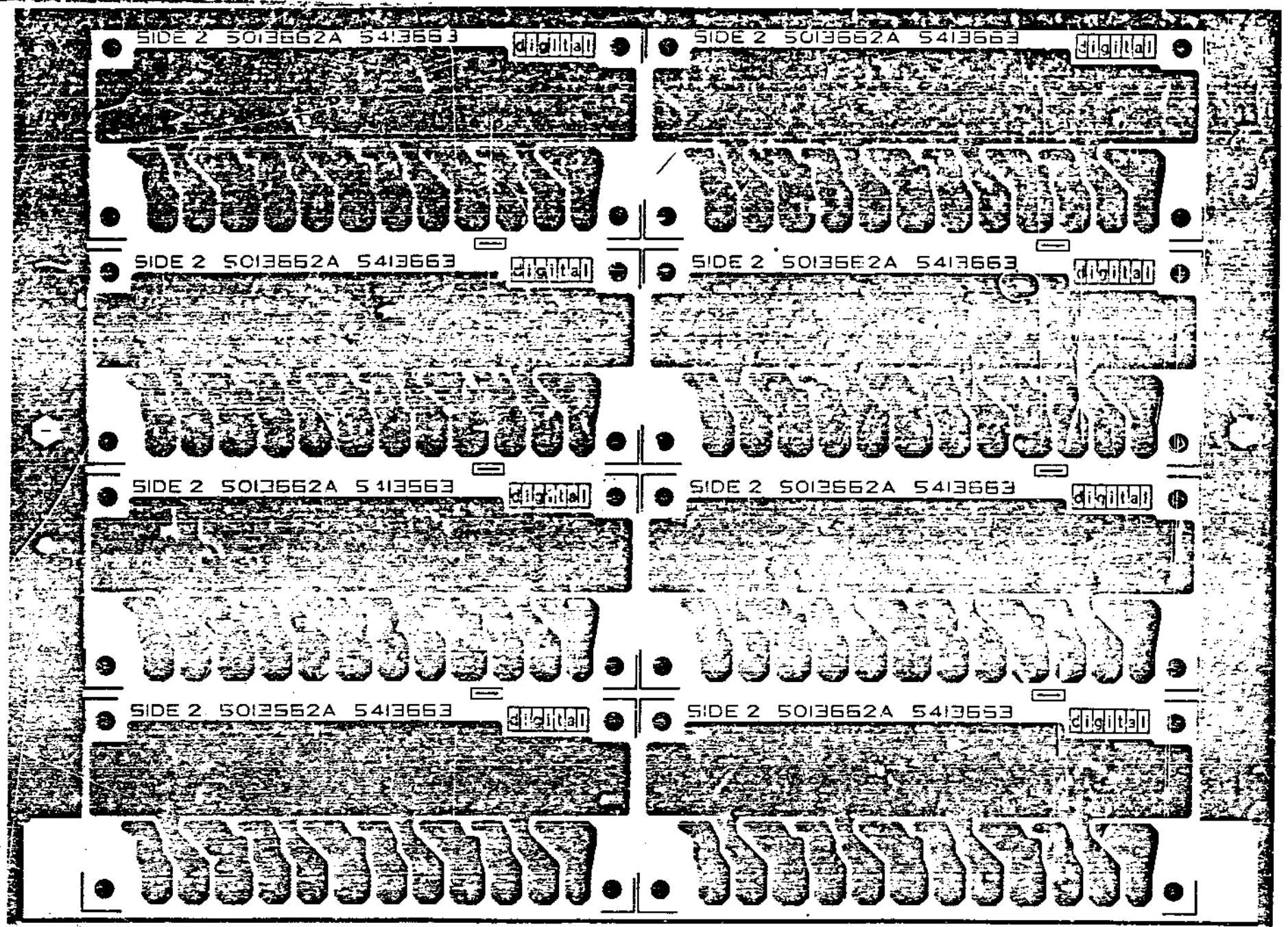
3

2

1 MS# 125653A

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★ 0-0-5413663-0-0 2



D  
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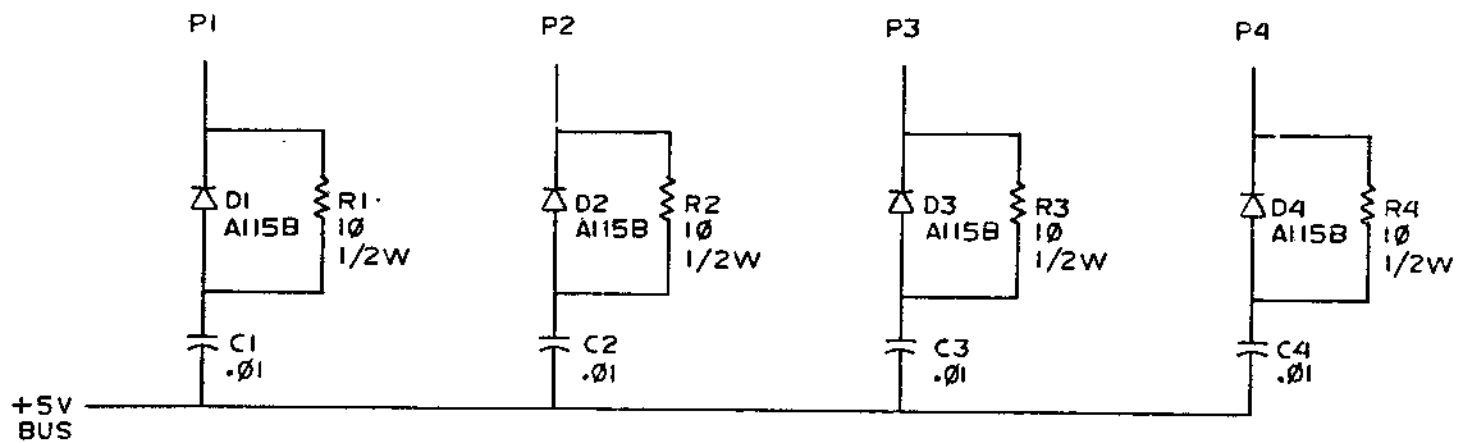
D UA 5413663-0-0 K

REV	NO	DATE	BY	CHKD


TYPE	H 140 SNUBBER BOARD	SIZE CODE	D UA	NUMBER	5413663-0-0	REV	K
SCA	2/1	SHEET	2 OF 2	DIST			

8 7 6 5 4 3 2 1

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REV.	CHANGE NO.	BY
A	10001	J.M.
A	17-SEP-81	A. B...
A		R. HEATON
A		J. ...

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRM: James Engels	DATE: 5-29-78	 TITLE H7140 SNUBBER BOARD	
CHK'D: J...	DATE: 6-1-78		
ENG: J. ...	DATE: 6/26/78		
PROJ. ENG: J. ...	DATE: 6/26/78		
PROD: F. ...	DATE: 7-13-78		
NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FIRST USED ON OPTION/MODEL		C CS	5413663-0-1
SCALE	NONE		REV. A
SHEET 1	OF 1	DIST.	

REV. A  
5413663-0-1  
CS

AUTOMATED BY PRTLST.3L(32)

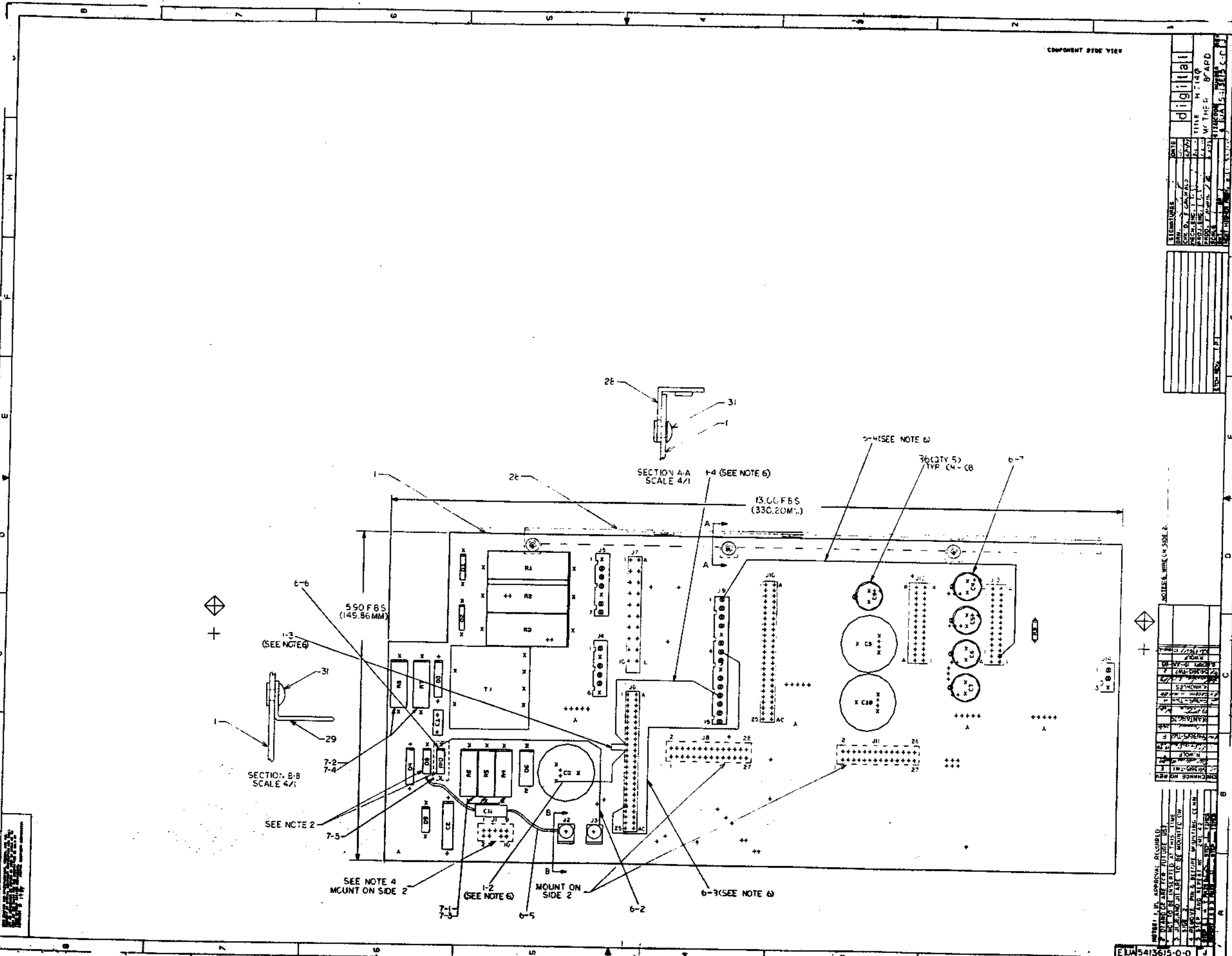
PARTS LIST

SHEET 01 OF 01

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	D-MD-5013662-C-0	5013662-00	DRILL & ETCH BD	1	
		1011847-01	.01 MFD 400V 10% POLYPROP	4	C1-C4
		1112594-01	A115B PIV=200 I= 3A	4	D1-D4
		1300168-00	10.0 50 W 5.0 % CC	4	R1-R4
		9107809-33	WIRE, STRND, 18AWG, TPVC UL1431	4	
		9007930-00	TERM, RING #10STUD CRIMP 16-2	4	
		9008356-01	WIRE MARKER, NUMERIC, 1-43	1	

8 NOTE: ITEM #5, 1.33' IS USED.

REVISION HISTORY		BASIC PART NO: 5413663		DRN: K.FRIEDGEN	DATE: 22-MAY-79	D I G I T A L	
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D: J.CASEY	DATE: 19-JUL-79	TITLE PARTS LIST	
	INITIAL	*	SECTION VARIATION INDEX	DES.ENG: J.A.HERRMANN	DATE: 22-MAY-79	SNUBBER BOARD ASSY	
EC	5413663-TN001	A	[A] 00	RESP.ENG.: J.A.HERRMANN	DATE: 22-MAY-79	DOCUMENT NUMBER	
			[B]	MFG.ENG.: F.MUNIZ	DATE: 19-JUL-79	K	PL 5413663-0-DSP
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:		FILE NAME: Z0525A.PLS
			[D]	D-UA-5413663-0-0	D-MD-5413663-0-0		EDIT # 10
			[E]	"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1991. DIGITAL EQUIPMENT CORPORATION"			
			[F]				
			[G]				
			[H]				
			[I]				
			[J]				
			[K]				
			[L]				
			[M]				
			[N]				



COMPONENT SIDE VIEW

REVISIONS	DATE	BY	DESCRIPTION
1	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
2	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
3	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
4	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
5	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
6	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
7	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
8	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
9	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
10	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
11	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
12	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
13	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
14	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
15	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
16	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
17	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
18	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
19	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
20	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
21	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
22	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
23	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
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41	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
42	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
43	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
44	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
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49	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING
50	07/27	J. J. GAVALS	REVISED TO ADD WIRE BONDING

digital  
TITLE: H-149  
M THER: 87APD  
DRAWN: J. J. GAVALS  
CHECKED: J. J. GAVALS  
APPROVED: J. J. GAVALS  
DATE: 07/27/77  
SCALE: 4/1  
SHEET: 1 OF 1  
PART: 1513615 C.C.

NOTES: WIRE ON SIDE 2.

NOTES:  
1. IN APPROVAL REQUIRED.  
2. DIMENSIONS ARE FOR FUTURE USE.  
3. DIMENSIONS ARE TO BE MOUNTED ON.  
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50. DIMENSIONS ARE TO BE MOUNTED ON.

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### REWORK INSTRUCTIONS

#### ECO #1

~~ETCH CUT SIDE~~  
~~FROM C3/NEG TO J6-P11, J6-P10 AND J6-P12~~

WIRE ADDS: SIDE 2  
1-2 FROM C3/NEG (TACK SOLDER TO ETCH) TO J6-P11  
1-3 FROM J6-P11 TO J6-P10  
1-4 FROM J6-P10 TO J6-P12

#### ECO #6

WIRE ADDS: SIDE 2  
6-2 FROM J9 TO D7 (CATHODE)  
6-3 FROM J9-7 TO .6-21 } USE ITEM 32  
6-4 FROM J9-1 TO J3-2

COMPONENT ADDS: SIDE 1  
6-5 (1) (P/N 100040-00) FROM D8 ANODE TO J2-INSULATE LEADS WITH ITEM 33.  
6-6 RIO (P/N 191220-00) IN FORMER D7 POSITION.  
6-7 ITEM 36 (P/N 9009731-03) ADD ON C4-C8.

#### ECO #7

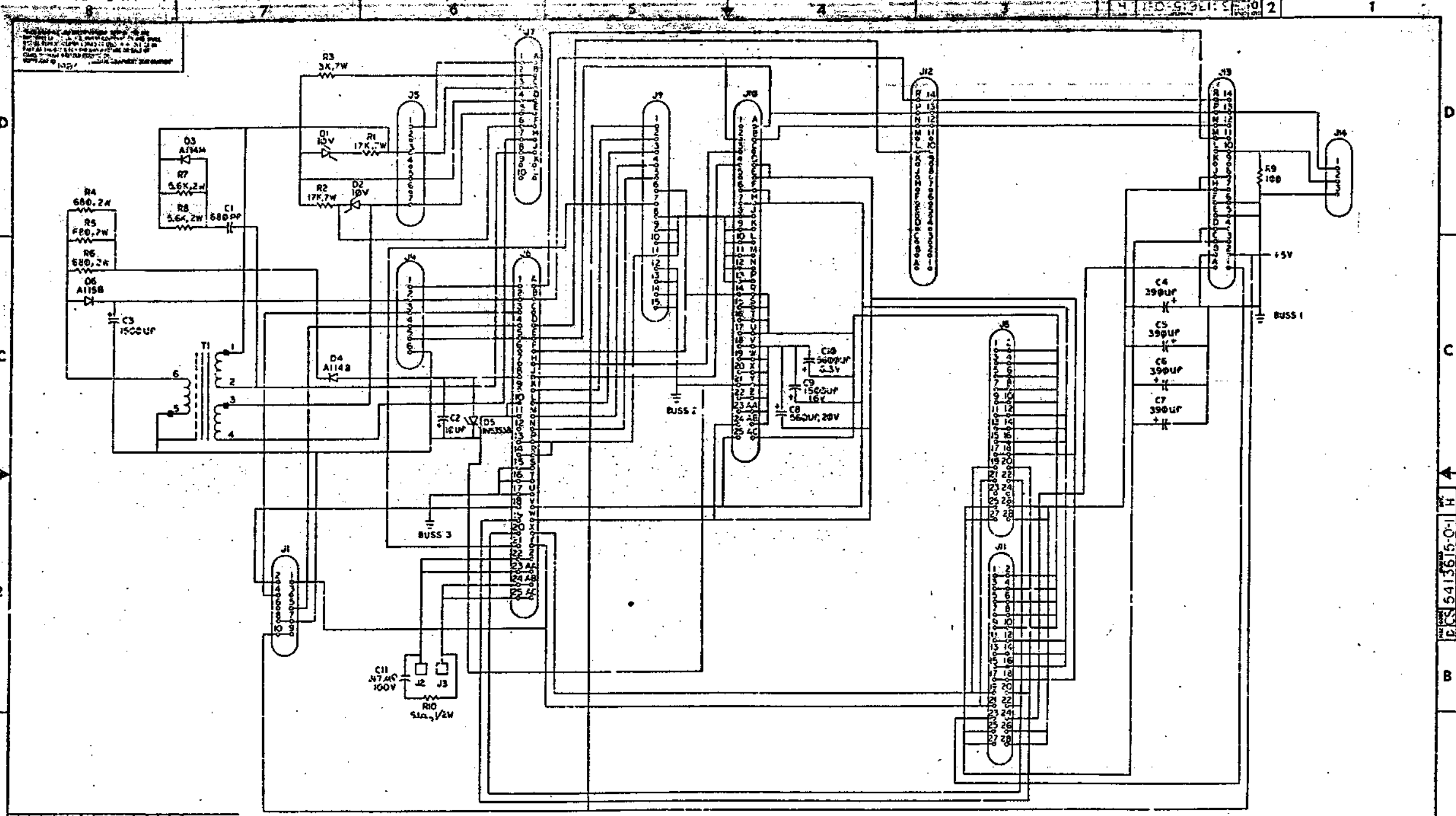
COMPONENT DELETES: SIDE 1  
7-1 DELETE P/N 1300348-00 (R4-R6)  
7-2 DELETE P/N 1300456-00 (R7,R8)

COMPONENT ADDS: SIDE 1  
7-3 ADD P/N 1319471-26 (R4-R6)  
7-4 ADD P/N 1319471-36 (R7,R8)  
7-5 ADD P/N 783383-01, ITEM 37 UNDER RIO.

REV	DATE	BY	CHKD

FILE	H7140 MOTHER BD	REV	J
DATE			

5413615-0-0



REV	DATE	BY	CHKD
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

DATE	REV	BY	CHKD
TITLE			
H7140			
MOTHER BOARD			
SIZE	CODE	NUMBER	REV.
D	CS	5413615-0-1	H
SHEET 1 OF 1			

CS 5413615-0-1 H

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5013614-0-0		5013614-00	DRILL & ETCH BD	1	
2	2			1004813-00	10 MFD 20V 10% S.TANT	1	C2
3	3			1012607-00	560 MFD 20V+100-10% AL EL	1	C8
4	4			1012607-06	390 MFD 20V+100-10% AL EL	4	C4-C7
5	5			1013280-00	680.0 MMF 1000V 5%200PPM MICA	1	C1
6	6			1014229-00	1500 MFD 16V +75-10% AL EL	2	C9,C3
7	7			1016169-00	5600 MFD 6.3V +75-10% AL EL	1	C10
8	8			1110854-00	VZ= 16.0 5% 5 W 1N5353B	1	D5
9	9			1100125-00	VZ= 10.0 5% 400 MW 1N758A	2	D1,D2
10	10			1112594-01	PIV= 200 IO= 3.00A	1	D6
11	11			1112595-01	PIV= 200 IO= 1.00A AXIAL	1	D4
12	12			1112595-02	PIV= 600 IO= 1.00A AXIAL	1	D3
13	13			1215341-01	PCB HEADER 10PIN(2X05).100CC STR	1	J1
14	14			1211004-00	PCB,HEADER 28SKT(2X19).100CC	4	J12,J13,J11,J8
15	15			1211004-04	PCB,HEADER 40SKT(2X20).200CC	1	J7
16	16			1211004-05	PCB,HEADER 50SKT(2X25).100CC	2	J6,J10
17	17			1216122-01	PCB,HEADER 07PIN(1X07).156CC KEY	1	J5
18	18			1216122-02	PCB,HEADER 15PIN(1X15).156CC KEY	1	J9
19	19			1216122-04	/REPLACED BY 12-12619-08	1	J14
20	20			1216122-05	/REPLACED BY 12-12619-07	1	J4
21	21			1300229-00	100.0 .25 W 5.0 % CF	1	R9
22	22			1319471-26	680.0 2.0 W 5.0 % M.OXIDE	3	R4-R6
23	23			1319471-36	5.60 K 2.0 W 5.0 % M.OXIDE	2	R7,R8
24	24			1316207-00	3.0 K 7.0 W 5.0 % WW	1	R3
25	26			1316209-00	17.0 K 7.0 W 5.0 % WW	2	R1,R2
26	27			1616215-00	XFMR P=240/360 S=5V	1	T1
27	28			7422391-00	SUPPORT,MOTHER BOARD	1	
28	29			9008219-00	TERM,TAB .250TAB .130STUD MN	2	J2,J3
29	31			9009000-00	EYELET,ROLLED 0.1210DX0.156	5	
30	32	(SEE NOTE 1)		9107688-55	WIRE(WRAP) 24AWG KYNAR UL13 A/R		

REVISION HISTORY			BASIC PART NO: 5413615			DRN: M.CICCONE			DATE: 27-MAR-79			DIGITAL		
ENG:	ECO NUMBER	REV	SECTION A OF A			CHK'D:	E.T.GERRY		DATE: 27-MAR-79		TITLE PARTS LIST			
---	INITIAL	D	SECTION VARIATION INDEX			DES.ENG:	R.WOLF		DATE: 27-MAR-79		DOCUMENT NUMBER			
R.W.	TW001	E	[A] 00			RESP.ENG.:	R.WOLF		DATE: 27-MAR-79		SIZE	CODE	NUMBER	REV
AK	TW002	F	[B]			MFG.ENG.:	P.WAITKUS		DATE: 6-AUG-79		K	PL	5413615-0-DBP	J
KK	5413615-TW006	H	[C]			ASSEMBLY NUMBER:	D-UA-5413615-0-0		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
RW	5413615-TW007	J	[D]							20376J.PLS		18		
			[E]							RELEASE DATE:		14-AUG-85		
			[F]											
			[G]											
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PARTS LIST

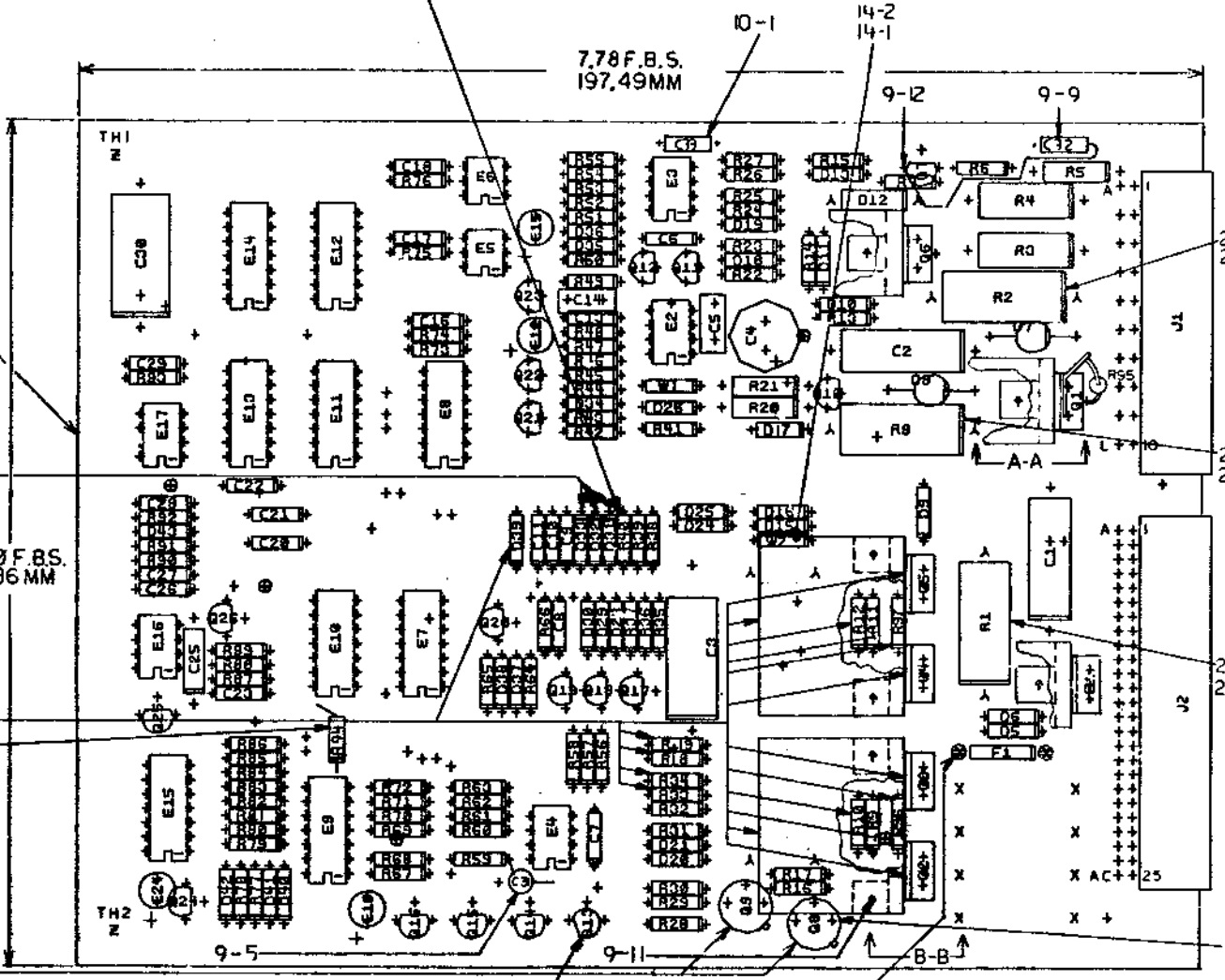
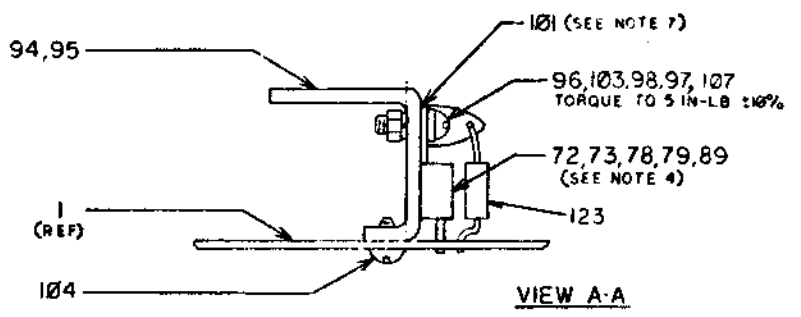
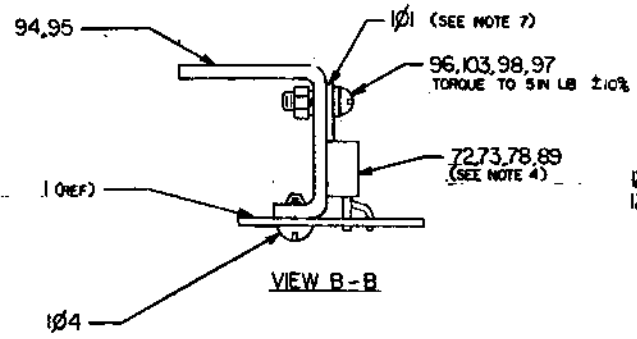
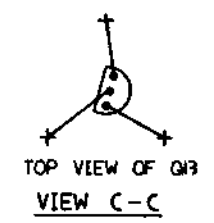
SHEET A2 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	DESCRIPTION	VARIATION	REVISION LEVEL	QTY PER VARIATION	REFERENCE DESIGNATOR
31	33	(SEE NOTE 2)	9107278-11	TUBING, TEFLON	.042 ID		A/R	
32	34		1000040-00	.47 MFD	100V 10%	MYLR	1	C11
33	35		1311220-00	5.10	.50 W 5.0 %	CF	1	R10
34	36		9009731-03	CAP, OPT.	VINYL .500 ID		5	
35	37	B-MD-7431383-0-DBU	7431383-01	INSULATOR,	COMPONENT		1	

36 NOTE: 1. FOR ITEM #32, 2 FT. IS USED.  
 37 NOTE: 2. FOR ITEM #33, 12 INCHES IS USED.

D	I	G	I	T	A	L	TITLE	MOTHER BOARD	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	5413615-0-DBP	J

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- NOTES:
1. STEP AND REPEAT CODE 2ML 39
  2. R18, R19 MUST BE RAISED .125 TO .150"
  3. D1-D4, R1, R2, R8 MUST BE RAISED .05 TO .10"
  4. E1 AND Q1-Q6, MUST BE MOUNTED TO HEAT SINK BEFORE BEING ATTACHED TO PCB.
  5. SEE VIEW A-A.
  6. EYELET ITEM NO. 99 USED IN MOUNTING HOLES OF F1.
  7. USE TRANSIPAD ITEM NO. 100 UNDER Q9.
  8. USE THERMAL COMPOUND ITEM NO. 101 BETWEEN F1, Q1-Q6, AND HEAT SINK'S.
  9. FOR INSTALLATION OF Q13 (ITEM # 60) SEE VIEW C-C.
- STEP 2 → Y AXIS 0.025 STEP 1 TIME  
REPORT → X AXIS 7.500 STEP 1 TIME

9. ASSEMBLE QTY 2 OF ITEM 100 WITH SMOOTH SURFACES TOGETHER UNDER Q9. NOTE POLARITY OF D31, D32, D33.

CHANGE NO	REV	DATE	BY	CHKD	APP'D	REASON
1	1	1-4-80	R. WOLF			
2	1	1-17-80	R. WOLF			
3	1	1-17-80	R. WOLF			
4	1	1-17-80	R. WOLF			
5	1	1-17-80	R. WOLF			
6	1	1-17-80	R. WOLF			
7	1	1-17-80	R. WOLF			
8	1	1-17-80	R. WOLF			
9	1	1-17-80	R. WOLF			
10	1	1-17-80	R. WOLF			
11	1	1-17-80	R. WOLF			
12	1	1-17-80	R. WOLF			
13	1	1-17-80	R. WOLF			
14	1	1-17-80	R. WOLF			
15	1	1-17-80	R. WOLF			
16	1	1-17-80	R. WOLF			
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20	1	1-17-80	R. WOLF			
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22	1	1-17-80	R. WOLF			
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24	1	1-17-80	R. WOLF			
25	1	1-17-80	R. WOLF			
26	1	1-17-80	R. WOLF			
27	1	1-17-80	R. WOLF			
28	1	1-17-80	R. WOLF			
29	1	1-17-80	R. WOLF			
30	1	1-17-80	R. WOLF			
31	1	1-17-80	R. WOLF			
32	1	1-17-80	R. WOLF			
33	1	1-17-80	R. WOLF			
34	1	1-17-80	R. WOLF			
35	1	1-17-80	R. WOLF			
36	1	1-17-80	R. WOLF			
37	1	1-17-80	R. WOLF			
38	1	1-17-80	R. WOLF			
39	1	1-17-80	R. WOLF			
40	1	1-17-80	R. WOLF			
41	1	1-17-80	R. WOLF			
42	1	1-17-80	R. WOLF			
43	1	1-17-80	R. WOLF			
44	1	1-17-80	R. WOLF			
45	1	1-17-80	R. WOLF			
46	1	1-17-80	R. WOLF			
47	1	1-17-80	R. WOLF			
48	1	1-17-80	R. WOLF			
49	1	1-17-80	R. WOLF			
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51	1	1-17-80	R. WOLF			
52	1	1-17-80	R. WOLF			
53	1	1-17-80	R. WOLF			
54	1	1-17-80	R. WOLF			
55	1	1-17-80	R. WOLF			
56	1	1-17-80	R. WOLF			
57	1	1-17-80	R. WOLF			
58	1	1-17-80	R. WOLF			
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60	1	1-17-80	R. WOLF			
61	1	1-17-80	R. WOLF			
62	1	1-17-80	R. WOLF			
63	1	1-17-80	R. WOLF			
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69	1	1-17-80	R. WOLF			
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71	1	1-17-80	R. WOLF			
72	1	1-17-80	R. WOLF			
73	1	1-17-80	R. WOLF			
74	1	1-17-80	R. WOLF			
75	1	1-17-80	R. WOLF			
76	1	1-17-80	R. WOLF			
77	1	1-17-80	R. WOLF			
78	1	1-17-80	R. WOLF			
79	1	1-17-80	R. WOLF			
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82	1	1-17-80	R. WOLF			
83	1	1-17-80	R. WOLF			
84	1	1-17-80	R. WOLF			
85	1	1-17-80	R. WOLF			
86	1	1-17-80	R. WOLF			
87	1	1-17-80	R. WOLF			
88	1	1-17-80	R. WOLF			
89	1	1-17-80	R. WOLF			
90	1	1-17-80	R. WOLF			
91	1	1-17-80	R. WOLF			
92	1	1-17-80	R. WOLF			
93	1	1-17-80	R. WOLF			
94	1	1-17-80	R. WOLF			
95	1	1-17-80	R. WOLF			
96	1	1-17-80	R. WOLF			
97	1	1-17-80	R. WOLF			
98	1	1-17-80	R. WOLF			
99	1	1-17-80	R. WOLF			
100	1	1-17-80	R. WOLF			

69 (SEE NOTE 8)

ETCH REV. CPI

SIGNATURES: DAN, CHK'D, RECH. ENG., PROJ. ENG., PROD. DATE: 1-4-80, 1-17-80, 1-17-80, 1-17-80, 1-17-80

TITLE: BIAS AND INTERFACE BOARD

SCALE: 1 OF 5

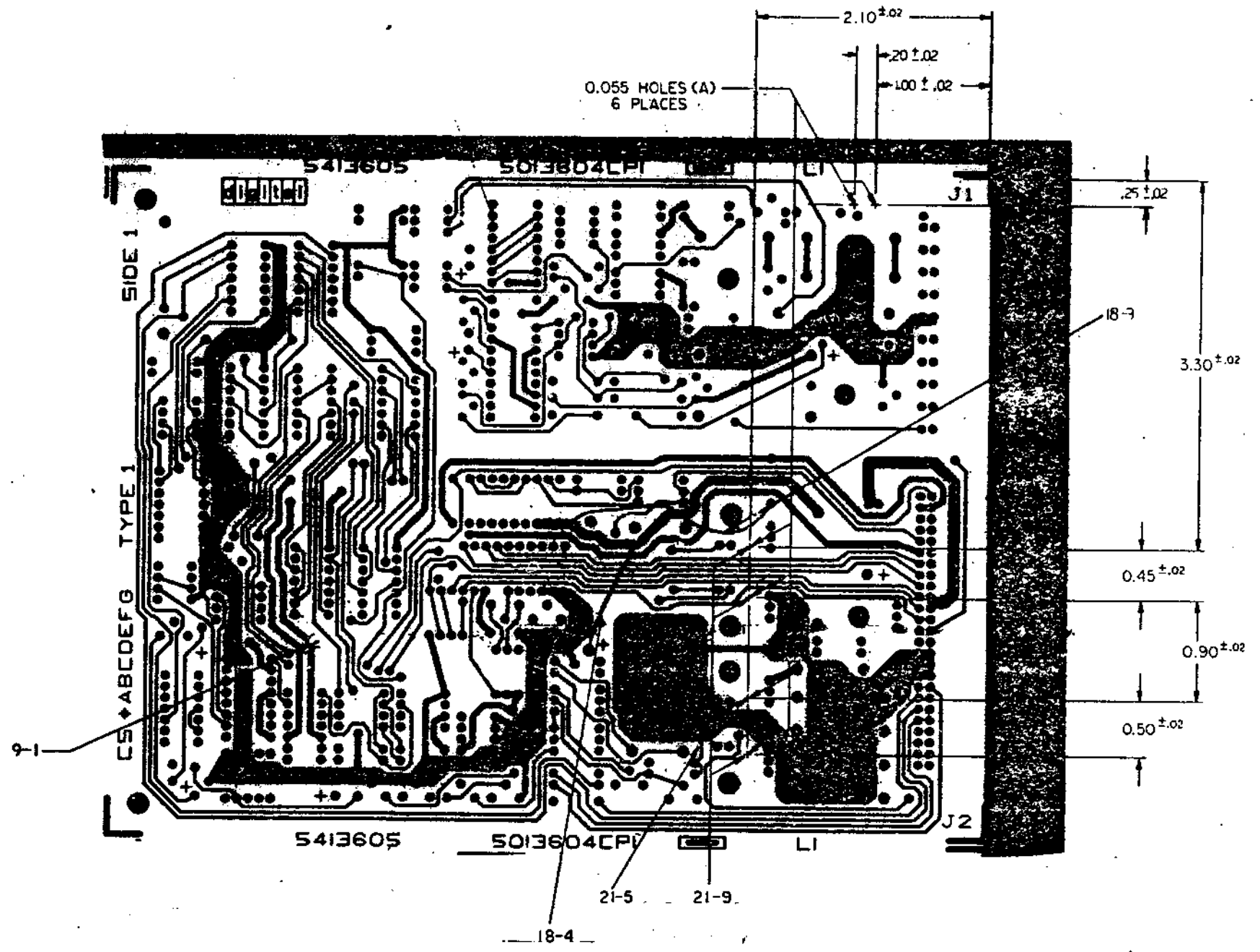
SIZE CODE: D UA 5413605-0-0

NUMBER: 171997

DUA 5413605-0-0

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8 7 6 5 4 3 2 1



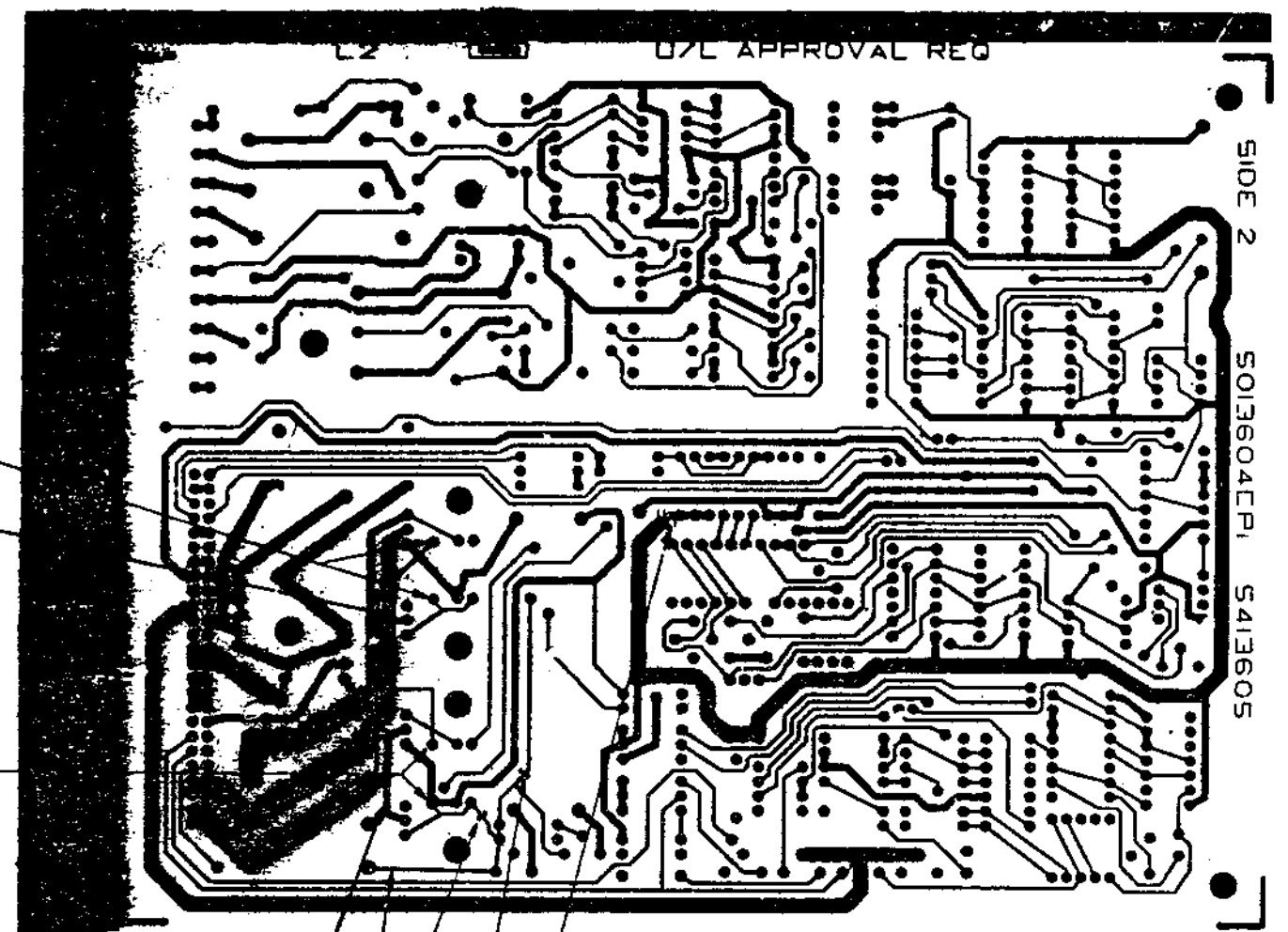
DATE	BY	CHKD	APP'D	REV
1/20/68	J. BRAUN			1

TITLE				DOCUMENT NUMBER			
BIAS AND INTERFACE BOARD				D	JA	5413605-G-0	T
				2/1	1	2	5
				TW	1		

8 7 6 5 4 3 2 1

D C

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21-11  
9-2  
21-4  
21-10

21-6  
9-3  
21-3  
21-1  
21-2  
18-2

SIDE 2  
5013604EP1  
5413605

D7L APPROVAL REQ

REVISION HISTORY		
DATE	ISS. NUMBER	REV.

TITLE  
BIAS AND  
INTERFACE BOARD

DOCUMENT NUMBER		
PROJECT	NUMBER	REV.
D'UA	5413605-0-0	T

SHEET 3 OF 5  
TW

8 1 0-0-5098185 07U 6 4 3 2 1

8 7 6 5 4 3 2 1 TW

D'UA 5413605-0-0

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REWORK INSTRUCTIONS

ECO #9

ETCH CUTS SIDE 1:

9-1 CUT ETCH FROM E9-3 TO C20.

ETCH CUTS SIDE 2:

9-2 CUT ETCH FROM Q4-C TO Q5-C.

9-3 CUT ETCH FROM Q2-C TO Q3-C.

COMPONENT ADDS SIDE 1

9-4 INSTALL R94 ACROSS ETCH CUT 9-1 BY TACK SOLDER AS SHOWN.

9-5 INSTALL POS. END OF C31 TO END OF R59 ADJACENT TO E4 USING A .125" LENGTH OF TUBING (ITEM 110) AND SOLDERING NEG. END TO ETCH BETWEEN E4 AND Q14.

9-6 INSTALL SOLDER TERMINALS (ITEM 107) ON COLLECTOR TABS OF Q2-Q5 USING EXISTING HARDWARE AS SHOWN.

9-7 CONNECT D45 TO TERMINALS ON Q4 AND Q5 WITH CATHODE (BLACK BAND) CONNECTED TO Q4.

9-8 CONNECT D44 TO TERMINALS ON Q2 AND Q3 WITH CATHODE (BLACK BAND) CONNECTED TO Q2.

9-9 INSTALL C32 BY DRILLING TWO .055 HOLES (AS SHOWN ON SHEET 2 OF 3 OF THE UA PRINT) AND INSTALL GRIPLET (P/N 12-10244-01) IN HOLE NEAREST EDGE CONNECTOR ONLY. TACK SOLDER TO ETCH BETWEEN R5 AND R6 ON SIDE 2.

COMPONENT DELETE SIDE 1:

9-10 REMOVE HEAT SINKS (ITEM 95) FROM Q2-Q5.

COMPONENT DELETE SIDE 2:

9-11 REMOVE FOUR (4) TAPPING SCREWS (ITEM 104) USED TO SECURE HEAT SINKS (ITEM 95).

WIRE ADDS SIDE 1:

9-12 INSTALL WIRE (ITEM 114) IN HOLE WITH GRIPLET AND CONNECT TO Q7 COLLECTOR.

REWORK INSTRUCTIONS

ECO #10

COMPONENT ADD SIDE 1:

10-1 ADD C33 BY HANDDRILLING 2 .055 HOLES AND TACK SOLDERING ONE LEAD TO RUN THAT E3-PIN 3 IS ATTACHED TO, AND TACK SOLDERING THE OTHER LEAD TO RUN THAT IS ATTACHED TO E3-PIN 4 (BOTH CONNECTIONS SHOULD BE TACK SOLDERED ON SIDE #2).

REWORK INSTRUCTIONS

ECO #12

COMPONENT DELETE SIDE 1

12-1 DELETE R40, DEC P/N 1300439-00.

COMPONENT ADD SIDE 1

12-2 ADD R40, DEC P/N 1301890-00.

REWORK INSTRUCTIONS

ECO #14

COMPONENT DELETE SIDE 1

14-1 REMOVE D14

WIRE ADD SIDE 1

14-2 ADD JUMPER (ITEM #102) IN PLACE OF D14.

REWORK INSTRUCTIONS ECO #16

COMPONENT DELETES SIDE 1

16-1 REMOVE Q8 P/N 15-10959-00 AND DISCARD

COMPONENT ADDS SIDE 1

16-2 ADD Q8 P/N 15-10959-00 WITH QTY 2 OF ITEM 100 PREASSEMBLED WITH SMOOTH SURFACES TOGETHER

REWORK INSTRUCTIONS PER ECO #5013604-TW18

ETCH CUTS SIDE 1:

18-1 CUT ETCH AT JUNCTION OF R38, R39, AND R40.

SIDE 2

18-2 CUT ETCH AT JUNCTION OF R38, R39, AND R40.

CONT...

WIRE ADDS SIDE 1:

18-3 ADD JUMPER ITEM 114 FROM JUNCTION OF R38, R39 AND R40 TO D9 CATHODE.

18-4 ADD JUMPER ITEM 120 FROM POSITIVE SIDE OF C3 TO JUNCTION OF R1, E1-2.

REWORK INSTRUCTIONS PER ECO #19

WIRE ADDS SIDE 1

19-1 ADD WIRE (ITEM 114) FROM R38 TO ANODE OF D9 BY WRAPPING WIRE AROUND LEAD OF D9 ANODE AND SOLDERING OTHER END TO ETCH ADJACENT TO R38.

19-2 ADD WIRE (ITEM 120) FROM R1 ETCH TO POSITIVE LEAD OF C1 BY WRAPPING WIRE AROUND C1 POSITIVE LEAD. BE SURE TO WRAP LEAD COUNTER CLOCKWISE TO PREVENT LEAD FROM COMING IN CONTACT WITH ADJACENT COMPONENT. SECURE OTHER END BY SOLDERING TO ETCH ADJACENT TO R1.

REWORK INSTRUCTIONS PER ECO #20

COMPONENT ADDS SIDE 1

20-1 CUT AND REMOVE COLLECTOR LEAD OF Q1.

20-2 ADD TERMINAL LUG (ITEM 107) DEC P/N 9006761-00 TO COLLECTOR TAB OF Q1. LUG SHOULD BE PLACED BETWEEN SCREW HEAD (ITEM 96) AND RECTANGULAR WASHER (ITEM 103).

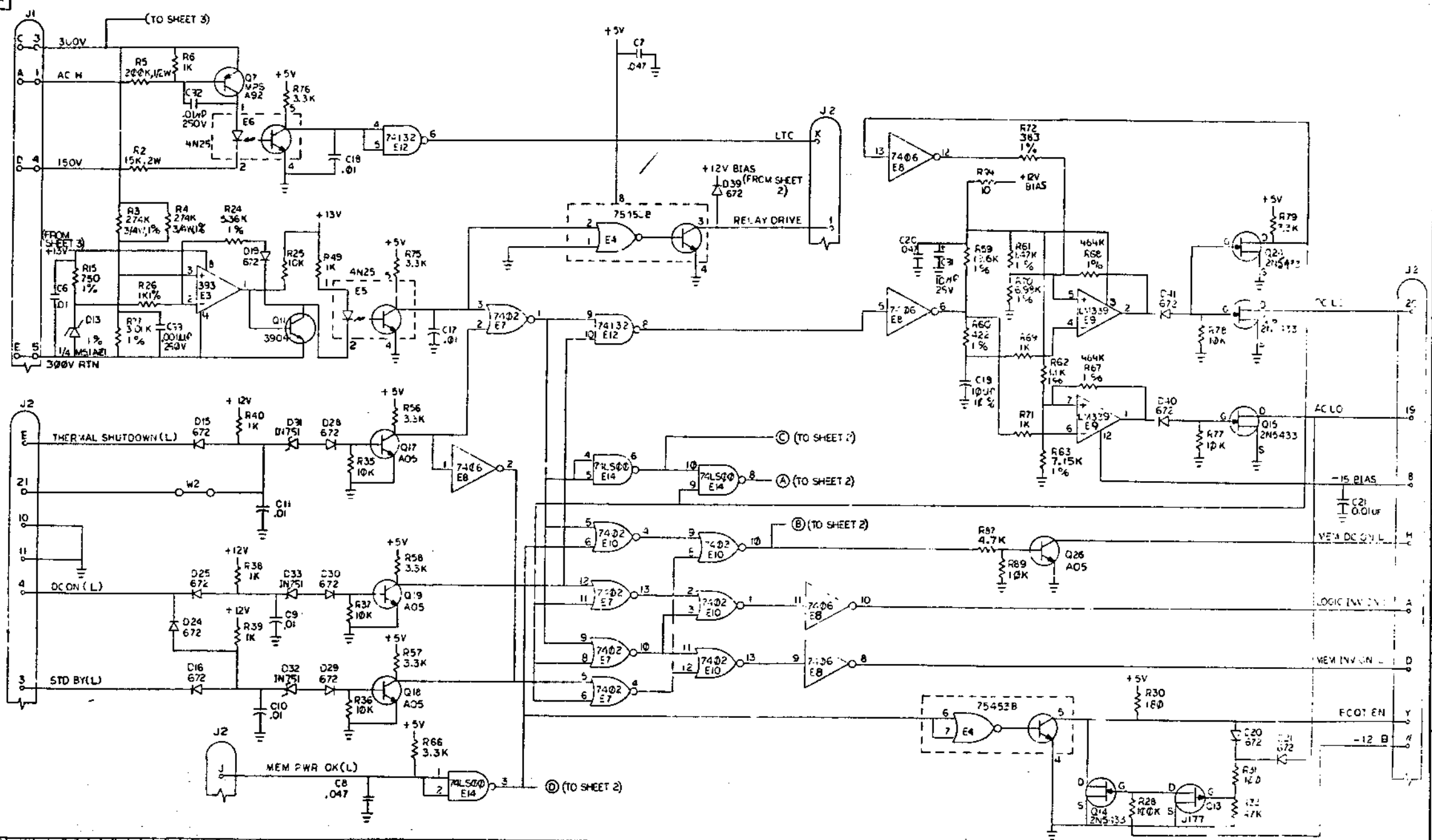
20-3 SOLDER FUSIBLE RESISTOR (ITEM 123) DEC P/N 1315518-02 FROM TERM LUG ON Q1 COLLECTOR TAB TO HOLE IN ETCH BOARD VACATED BY Q1 COLLECTOR LEAD.

REVISION HISTORY		
DATE	ECO NUMBER	REV

8	7	6	5	4	3	2	1	TITLE BIAS AND INTERFACE BOARD	DOCUMENT NUMBER DUA 5413605-0-0	REV T4
								SCALE 2/1	SHEET 4 OF 5	



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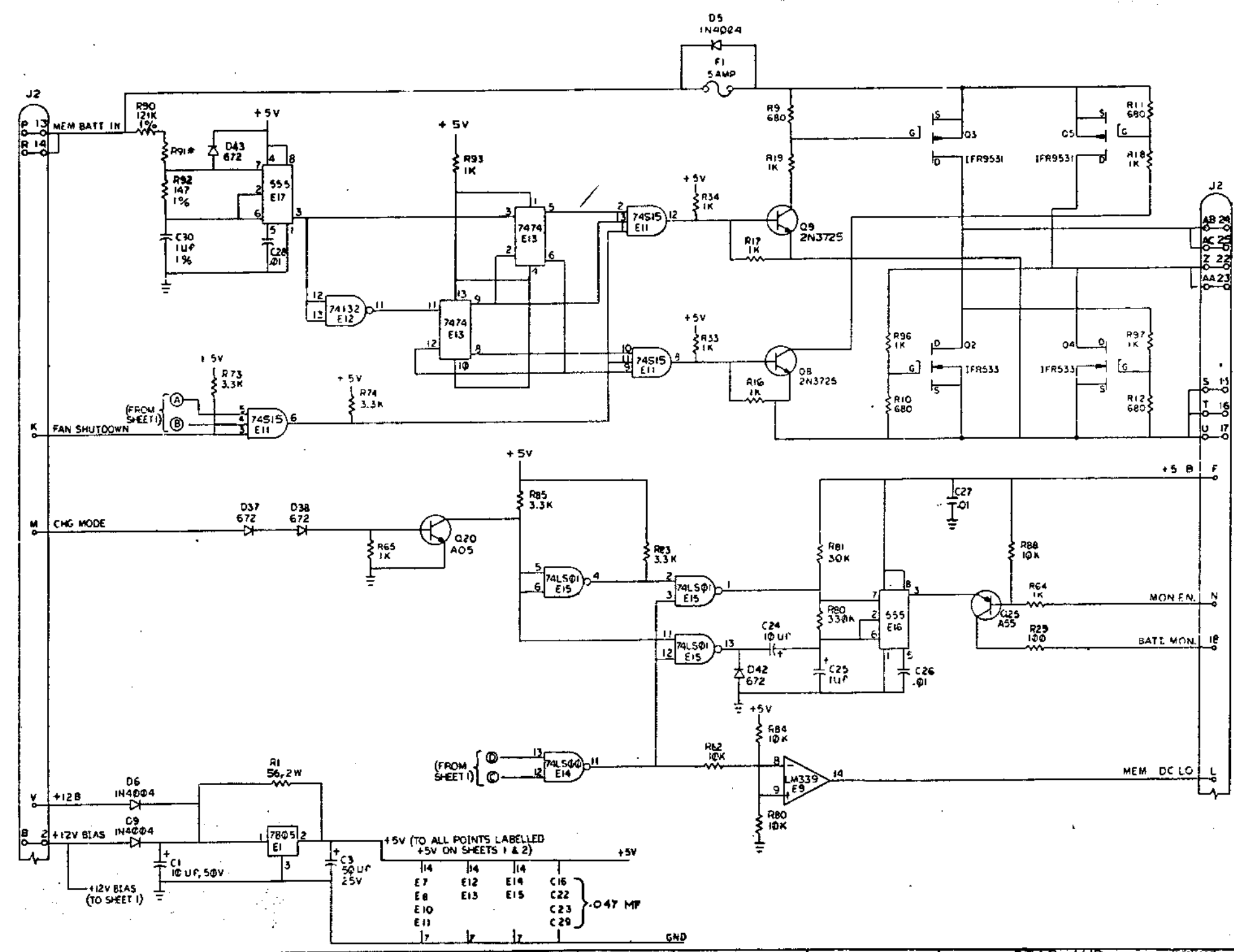
REV.	DATE	BY	CHK'D	APP'D
1	5/13/65	WOLF		
2	5/13/65	WOLF		
3	5/13/65	WOLF		
4	5/13/65	WOLF		
5	5/13/65	WOLF		
6	5/13/65	WOLF		
7	5/13/65	WOLF		
8	5/13/65	WOLF		

DRN.	CHK'D	ENG. I.	PROG. ENG.	NEXT HIGHER ASSY.	SCALE	SHEET	OF	DIST.
						1	1	

FIRST USED ON	TITLE	SIZE	CODE	NUMBER	REV.
digital	BIAS AND INTERFACE BOARD	D	CS	5413605-0-1	S

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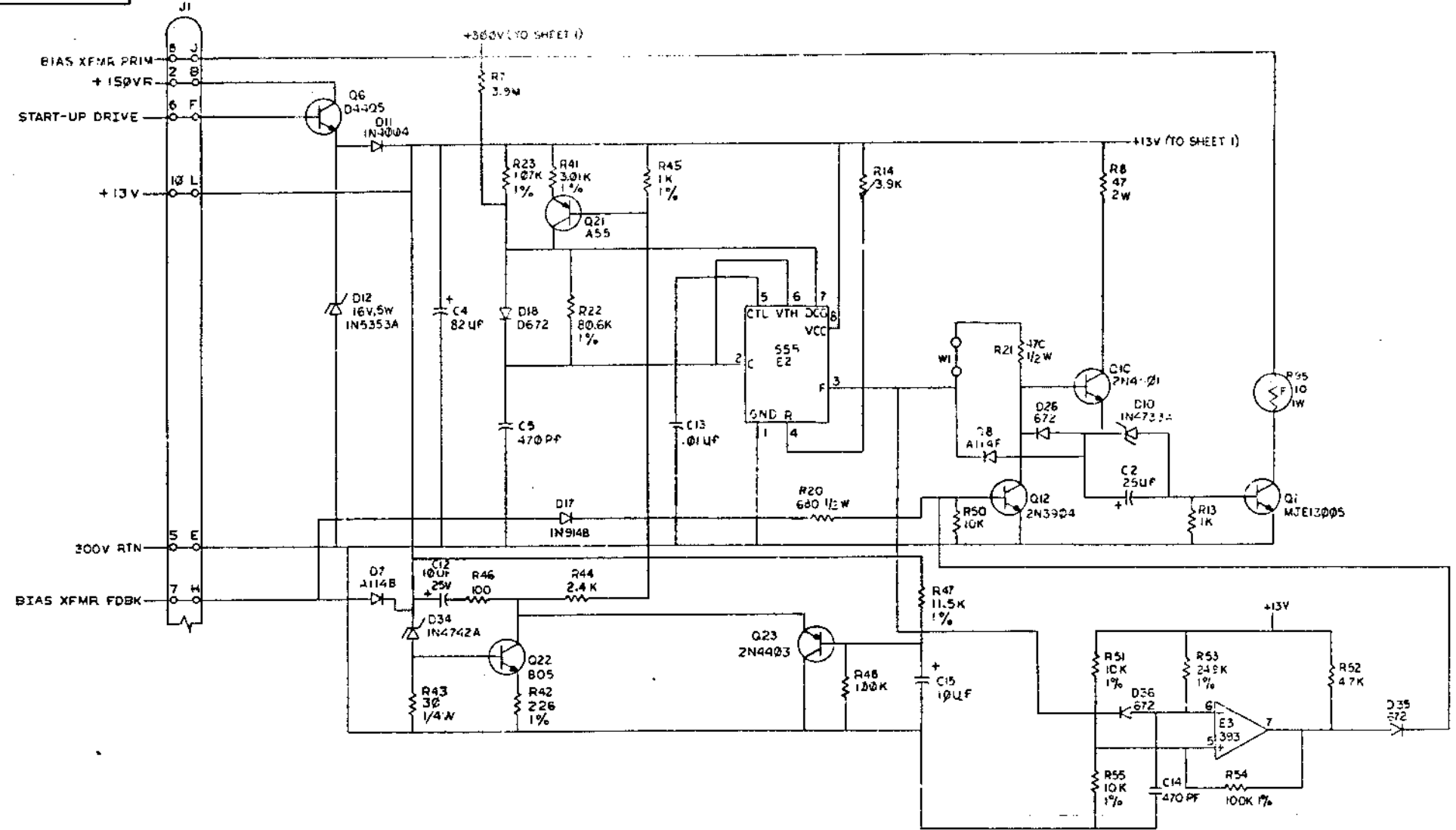
COMPONENT DESIGNATORS	-00 VAR	YA VAR
R91	5.36K 1%	40.2K 1%



REVISIONS		
CHK	CHANGE NO.	REV.



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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	BIAS AND INTERFACE BOARD	SIZE CODE	DICS	NUMBER	5413605-01	REV	S
SCALE		SHEET	3	OF	3	DIST.	

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA		
						S2	S2		
1	1	D-MD-5013604-0-0	50-13604-00		DRILL & ETCH BD	1	1		
2	2		10-00024-00		470 PFD 100V +/- 5% 200PP	2	2		C5,C14
3	3		10-00070-00		10 MFD 50V +100/-10% ALU	1	1		C1
4	4		10-00075-00		25 MFD 25V +75/-10% ALU	1	1		C2
5	5		10-01610-00		0.010MFD 50V +80/-20% Z5U C	11	11		C6,C9-C11,C13,C17,C18,C21, CONT C26-C28
6	6		10-01776-00		1.0 MFD 35V +/-10% SOL	1	1		C25
7	7		10-01796-00		50 MFD 25V +75/-10% ALU	1	1		C3
8	8		10-10866-02		10 MFD 25V +50/-20% SOL	4	4		C12,C15,C24,C31
9	9		10-12784-00		0.047MFD 50V +80/-20% Z5U C	6	6		C7,C16,C20,C22,C23,C29
10	10		10-13252-00		92 MFD 50V +100/-10% ALU	1	1		C4
11	11		10-16138-00		1.0 MFD 50V +/- 1% M.POL	1	1		C30
12	12		11-05275-00		PIV= 60 IO=300 MA -15NS	21	21		D15,D16,D18-D21,D24-D26, CONT D28-D30,D35-D43
13	13		11-05796-00		PIV= 400 IO= 1.00A 1N4004 D0-41	4	4		D5,D6,D9,D11
14	14		11-05871-00		VZ= 5.15 1% 250 MW	1	1		D13
15	15		11-09502-02		VZ= 12.0 5% 1 W 1N4742A	1	1		D34
16	16		11-09517-00		PIV= 75 IO=150 MA - 4NS 1N914B	1	1		D17
17	17		11-09943-00		VZ= 5.1 5% 1 W 1N4733A	1	1		D10
18	18	#BLANK			*** THIS ITEM IS NOT USED ***	-	-		
19	19		11-10854-00		VZ= 16.0 5% 5 W 1N5353B	1	1		D12
20	20		11-12595-00		PIV= 50 IO= 1.00A AXIAL	1	1		D8
21	21		11-12595-01		PIV= 200 IO= 1.00A AXIAL	1	1		D7
22	22		12-05747-00		FUSE PICO 5.0 A 125V AXIAL LEA	1	1		F1
23	23		12-16112-02		PCB,HEADER 20POS(2X10).100CC 90D	1	1		J1
24	24		12-16112-03		PCB,HEADER 50POS(2X25).100CC 90D	1	1		J2
25	25		13-00229-00		100.0 .25 W 5.0 % CF	3	3		R29,R31,R46
26	26	#BLANK			*** THIS ITEM IS NOT USED ***	-	-		
27	27		13-00315-00		470.0 .50 W 5.0 % CF	1	1		R21
28	28		13-00347-00		680.0 .50 W 5.0 % CF	1	1		R20
29	29		13-00365-00		1.0 K .25 W 5.0 % CF	19	19		R6,R13,R16-R19,R33,R34,R38-R40, CONT R49,R64,R65,R69,R71,R93,R96,R97

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A		DRN: J.FERGUSON		DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 16-OCT-80		CHK'D: F.GAROFALO		TITLE PARTS LIST			
							DATE: 16-OCT-80		BIAS AND INTERFACE BD			
---	INITIAL	E	[A]	00, YA	[M]	DES.ENG: R.WOLF		DOCUMENT NUMBER				
EC	5413605-TW009	F	[B]		[N]	DATE: 16-OCT-80		SIZE	CODE	NUMBER	REV	
RH	5413605-TW010	H	[C]		[P]	DATE: 16-OCT-80		K	PL	5413605-0-DBP	T	
KK	5413605-TW012	J	[D]		[Q]	RESP.ENG.: R.WOLF		RELEASE DATE: 27-MAY-86				
KK	5413605-TW014	K	[E]		[R]	DATE: 16-OCT-80		RELEASE STATUS: RELEASED				
RH	5413605-TW015	L	[F]		[S]	DATE: 16-OCT-80						
KK	5413605-TW016	M	[H]		[T]	MFG.ENG: J.COMELLA						
S	5413605-TW018	P	[J]		[V]	DATE: 16-OCT-80						
RW	5413605-TW020	R	[K]		[W]							
RW	5413605-TW021	S	[L]		[Y]							
JA	5413605-LK022	T										
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			5413605		L-UA-5413605-0-0		B-DD-5413605-0-0		Z0402T.PLS		2	

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
				00	YA		
				S2	S2		
30	30		13-00439-00	3.30	K	.25 W 5.0 % CF	
			CONT				
31	31		13-00444-00	3.90	K	.25 W 5.0 % CF	R56-R58,R66,R73-R76,R79,R83,R85
32	32		13-00447-00	4.70	K	.25 W 5.0 % CF	R14
33	33		13-00479-00	10.0	K	.25 W 5.0 % CF	R52,R87
							R25,R35-R37,R50,R77,R78,R82,
							CONT R84,R86,R88,R89
34	34		13-01322-00	180.0		.25 W 5.0 % CF	R30
35	35		13-02091-00	330.0	K	.25 W 5.0 % CF	R80
36	36		13-02177-00	47.0	K	.25 W 5.0 % CF	R32
37	37		13-19471-40	15.0	K	2.0 W 5.0 % M.OXIDE	R2
38	38		13-02394-00	30.0	K	.25 W 5.0 % CF	R81
39	39		13-02466-00	100.0	K	.25 W 5.0 % CF	R28,R48
40	40		13-02479-00	200.0	K	.50 W 5.0 % CF	R5
41	41		13-02644-00	226.0		.25 W 1.0 % RN55D-F10	R42
42	42		13-02645-00	1.10	K	.25 W 1.0 % RN55D-F10	R62
43	43		13-02748-00	1.0	K	.25 W 1.0 % RN55C-F 5	R26,R45
44	44		13-02751-00	30.0		.25 W 5.0 % CF	R43
45	45		13-19471-09	56.0		2.0 W 5.0 % M.OXIDE	R1
46	46		13-02860-00	11.50	K	.25 W 1.0 % RN55D-F10	R47
47	47		13-02874-00	147.0		.25 W 1.0 % RN55D-F10	R92
48	48		13-02955-00	750.0		.25 W 1.0 % RN55D-F10	R15
49	49		13-03067-00	422.0		.25 W 1.0 % RN55D-F10	R60
50	50		13-03177-00	2.40	K	.25 W 5.0 % CF	R44
51	51		13-03305-00	6.98	K	.25 W 1.0 % RN55D-F10	R70
52	52		13-03322-00	274.0	K	.75 W 1.0 % RN65D-F10	R3,R4
53	53		13-03438-00	121.0	K	.25 W 1.0 % RN55D-F10	R90
54	54	#BLANK				*** THIS ITEM IS NOT USED ***	
55	55		13-05108-00	1.47	K	.25 W 1.0 % RN55D-F10	R61
56	56		13-05125-00	383.0		.25 W 1.0 % RN55D-F10	R72
57	57		13-05253-00	7.15	K	.25 W 1.0 % RN55D-F10	R63
58	58	#BLANK				*** THIS ITEM IS NOT USED ***	
59	59		13-09419-00	19.60	K	.25 W 1.0 % RN55D-F10	R59
60	60		13-05405-00	24.90	K	.25 W 1.0 % RN55D-F10	R53
61	61	#SEE NOTE 1	13-13341-00	5.36	K	.25 W 1.0 % RN55D-F10	R24,R91
62	62		13-13775-00	80.60	K	.25 W 1.0 % RN55D-F10	R22
63	63		13-13843-00	107.0	K	.25 W 1.0 % RN55D-F10	R23
64	64		13-19471-08	47.0		2.0 W 5.0 % M.OXIDE	R8
65	65		13-14041-00	3.01	K	.25 W 1.0 % RN55D-F10	R27,R41
66	66		13-03043-00	464.0	K	.25 W 1.0 % RN55D-F10	R67,R68
67	67		13-14387-00	3.90	M	.25 W 5.0 % CF	R7
68	68		15-09524-00	2N 3904		NPN 310MW SI 40 40 M	Q11,Q12
69	69		15-17832-00	J 177		FET 360MW SI P CHNNL	Q13
70	70		15-10705-00	XA 05		NPN 500MW SI 60 50 P	Q17-Q20,Q26
71	71		15-10706-00	XA 55		PNP 500MW SI 60 50 P	Q21,Q25
72	72		15-23358-01			FET,MOS,PWR 60W T0220	Q2,Q4
73	73		15-23357-01			FET,MOS,PWR 60W T0220	Q3,Q5
74	74		15-10959-00	2N 3725		NPN 3.5WC SI 50 60 P	Q8,Q9
75	75		15-11686-00	DEC5433		FET N 350MW 10 25 1A	Q14-Q16,Q24
76	76		15-13489-00	2N 4401		NPN 350MW SI 40 20	Q10
77	77		15-13490-00	2N 4403		PNP 350MW SI-40 30	Q23

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							BIAS AND INTERFACE BD		K	PL	5413605-0-DBP	T

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA		
						S2	S2		
78	78		15-14271-01	D	4405 NPN 31W SI225 30	1	1		Q6
79	79		15-16119-00		NPN 75W SI	1	1		Q1
80	80		15-16121-00	MPS A92	PNP 625MW SI300 25	1	1		Q7
81	81		19-05547-00		7474 FF-D DUAL,EDGE TRIGG	1	1		E13
82	82		19-09004-00	DEC	7402 NOR GATE-QUAD 2IN	2	2		E7,E10
83	83		19-10538-00		74S15 AND GATE-TRIPLE 3IN	1	1		E11
84	84		19-10741-00		7406 INVERTER GATE-HEX 1I	1	1		E8
85	85		19-11036-00		75453 DRIVER,PERIPH,DUAL,0	1	1		E4
86	86		19-11637-00		74132 NAND GATE-QUAD 2 IN	1	1		E12
87	87		19-11944-00		555CN TIMER,FUNCT.BLOCK	2	2		E2,E16
88	88		19-12108-00		LM339 VOLT CMPRTR,QUAD	1	1		E9
89	89		19-12536-01		7805 VOLT REG,FIX +5V	1	1		E1
90	90		19-12799-00		LS00 NAND-GATE-QUAD 2IN,P	1	1		E14
91	91		19-12800-00		LS01 NAND-GATE-QUAD 2IN,P	1	1		E15
92	92		19-14156-00	LM	393 VOLT.COMPARATOR DUAL	1	1		E3
93	93		19-14194-00		OPTP-COUPLED ISOLATOR	-	1		
			CONT			1	-		E5
94	94	C-MD-7422046-0-0	74-22046-00		HEAT SINK,SINGLE	3	3		
95	95	#B-MD-7422047-0-0	74-22047-01		HEAT SINK DOUBLE	2	2		
96	96		90-06011-01		SCREW,MACH PAN PHIL 4-	7	7		
97	97		90-06556-00		NUT,HEX 4-40X .264AF SS/N	7	7		
98	98		90-06688-00		WASHER,HELICAL SPLIT SST	7	7		
99	99		90-06735-00		EYELET,FUNNEL 0.0590DX0.187	2	2		
100	100		90-07201-00		PAD,MOUNTING,COMPONENT	3	3		
101	101		90-08268-00		COMPOUND, THERMAL JOINT	A/R	A/R		
102	102		90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	2	2		W1,W2
103	103		90-09769-00		WASHER,RECTNGLR STEEL	7	7		
104	104		90-10128-00		SCREW,THD RL,PAN PHIL F/METAL	7	7		
105	105		13-03312-00		10.0 K .25 W 1.0 % RN55D-F10	2	2		R51,R55
106	106		13-03044-00		100.0 K .25 W 1.0 % RN55D-F10	1	1		R54
107	107		90-06761-00		TERM,LUG #6STUD LOCKING 45	1	1		
108	108		10-10978-32		0.047MFD 50V +/-10% X7R C	1	1		C8
109	109		13-01317-00		10.0 .25 W 5.0 % CF	1	1		R94
110	110		91-07256-00		TUBING,TEFLON .027ID	A/R	A/R		
111	111	#BLANK			*** THIS ITEM IS NOT USED ***	-	-		
112	112		10-00043-00		1000 PFD 250V +/-20% Y5F	2	2		C32,C33
113	113		12-10244-01		GRIPLET, .050 STRIP FORM	1	1		
114	114		91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R		
115	115	#BLANK			*** THIS ITEM IS NOT USED ***	-	-		
116	116		19-11944-01		555-1 TIMER FUNCT.BLOCK,5	1	1		E17
117	117		10-18571-00		10 MFD 25V +/-10% SOL	1	1		C19
118	118		15-10705-01	B	05 NPN 500MW SI 60 50	1	1		Q22
119	119	#SEE NOTE 1	13-14492-00		40.20 K .25 W 1.0 % RN55D-F10	-	1		
120	120		91-07688-55		WIRE(WRAP) 24AWG KYNAR UL13	A/R	A/R		
121	121		11-10994-00		VZ= 5.1 5% 400 MW 1N751A	-	3		
			CONT			3	-		D31-D33
122	122		19-14194-01		OPTO COUPLER,HIGH CT	-	1		E6
			CONT			1	-		
123	123		13-15518-02		10.0 1.0 W10.0 % FUSE	1	-		
			CONT			-	1		R95

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							BIAS AND INTERFACE 80			K	PL	5413605-0-DBP	T

AUTOMATED BY VAXKPL (V1.1)

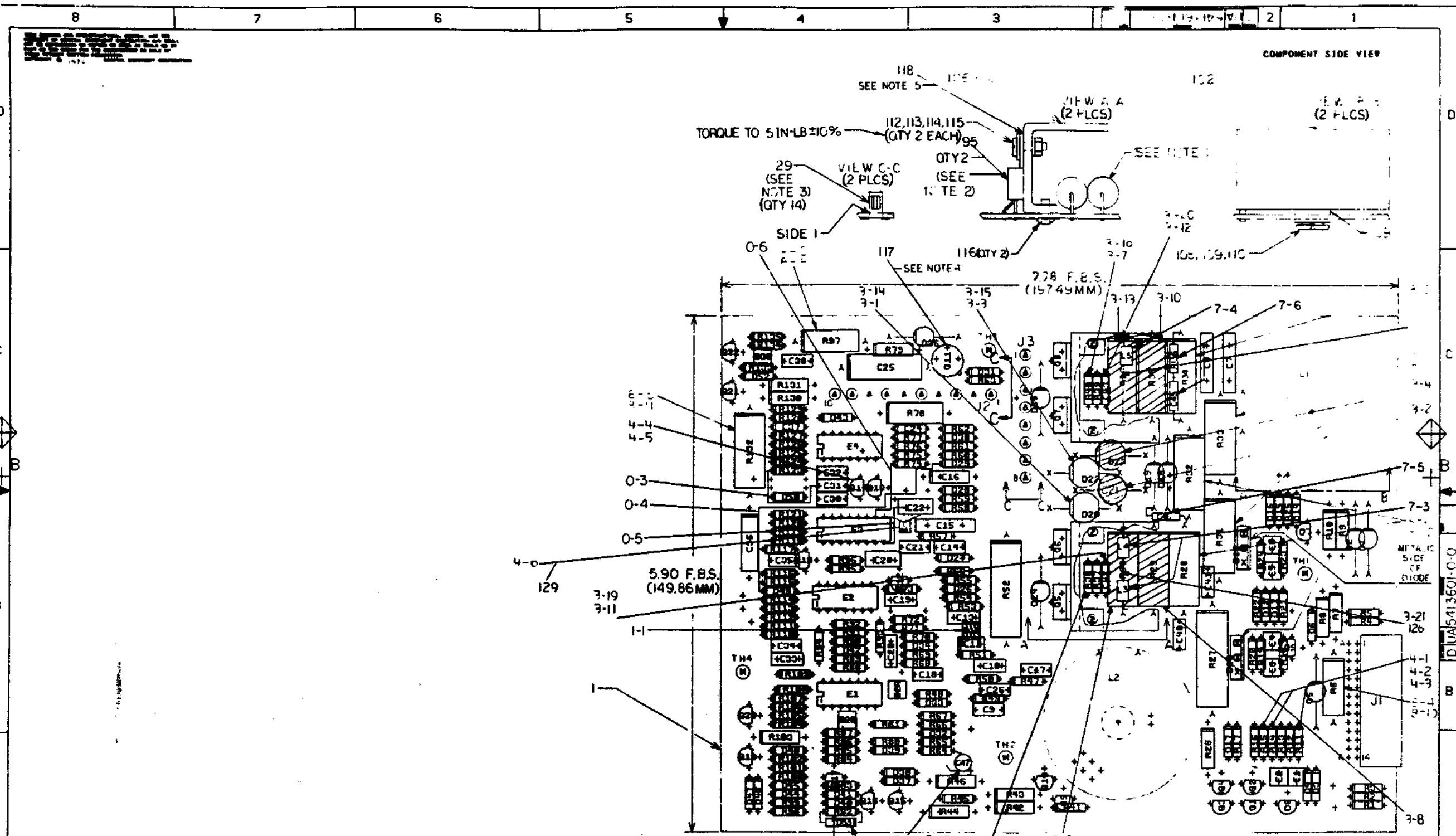
PARTS LIST

SHEET A4 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA		
						S2	S2		
124	124		13-01424-00	680.0	.25 W 5.0 % CF	4	4		R9-R12

1 GEN: 1. J FOR ITEM #61 ONLY R24 IS USED ON VARIATION YA.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							BIAS AND INTERFACE BD		K	PL	5413605-0-DBP	T



CHANGE NO	REV	DATE	BY	CHK'D	APP'D
1	1	2-5-70	DAN		
2	1	2-2-70	D. E. GERRY		
3	1	2-2-70			
4	1	7-19-70			

NOTES:  
 5. USE THERMAL COMPOUND (ITEM 118) BETWEEN HEAT SINK AND Q2, 6, 7, 8.  
 6. USE TRANSPAC (ITEM 117) UNDER Q1

REV	DATE	BY	CHK'D	APP'D
1	2-5-70	DAN		
2	2-2-70	D. E. GERRY		
3	2-2-70			
4	7-19-70			

SIGNATURES	DATE	TITLE
DAN.	2-5-70	digital
ENG. D. E. GERRY	2-2-70	LOGIC INVERTER
PROJ. ENG.	2-2-70	CONTROL BOARD
PROD.	7-19-70	

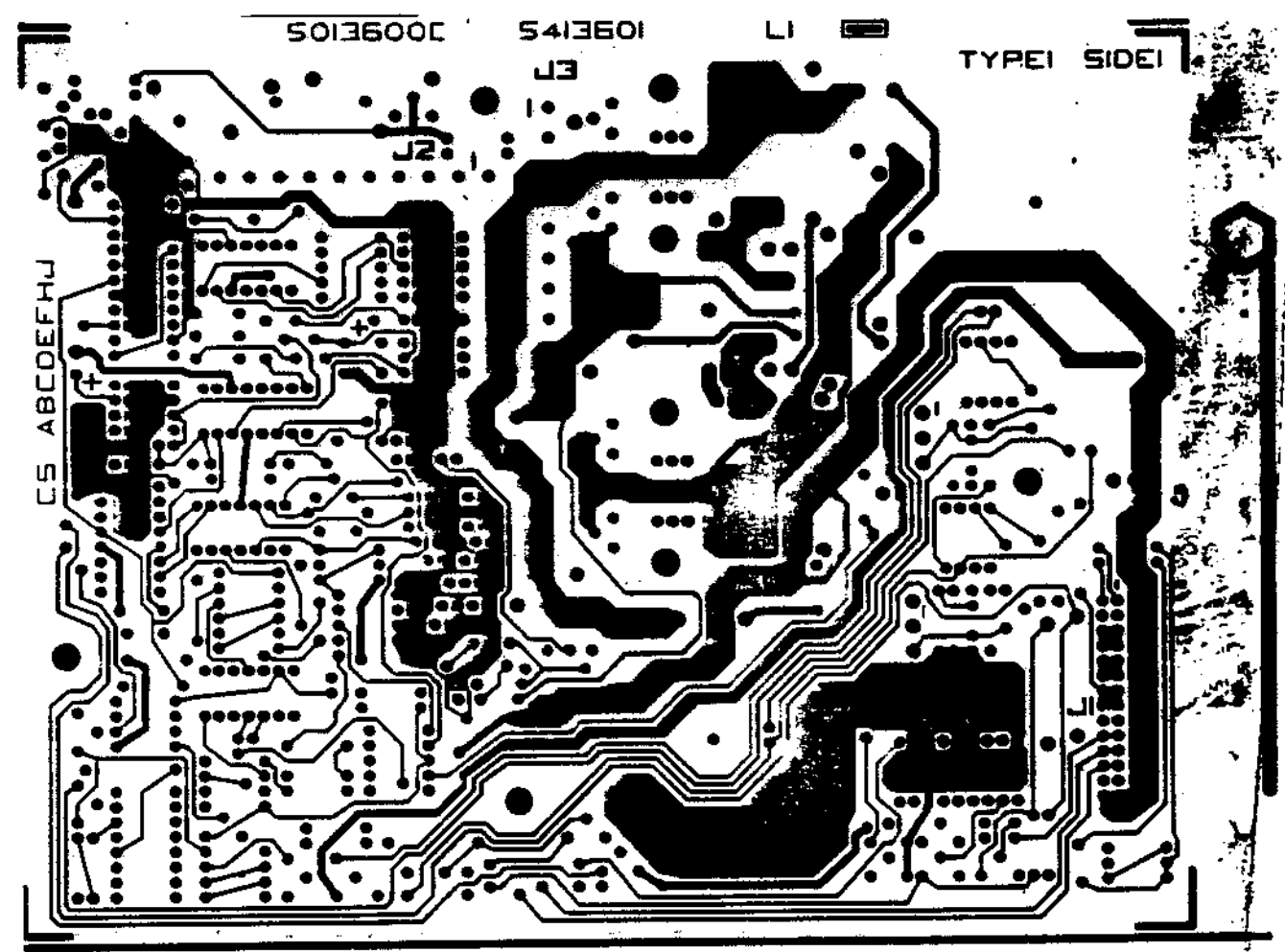
1 MS# 125600

8 7 6 5 4 3 2 1

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED  
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C  
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B  
A



DIA 5413601-0-C

8 7 6 5 4 3 2 1

LOGIC INVERTER  
CONV CL BOARD  
DIA 5413601-0-C

REVISIONS AND REVISIONS: SEE THE  
DRAWING FOR THE REVISIONS AND  
THE REVISIONS TO THE DRAWING.  
THE REVISIONS TO THE DRAWING  
ARE IN THE REVISIONS TO THE  
DRAWING. SEE THE REVISIONS TO  
THE DRAWING FOR THE REVISIONS  
TO THE DRAWING.

8 7 6 5 4 3 2 1

D

C

B

D

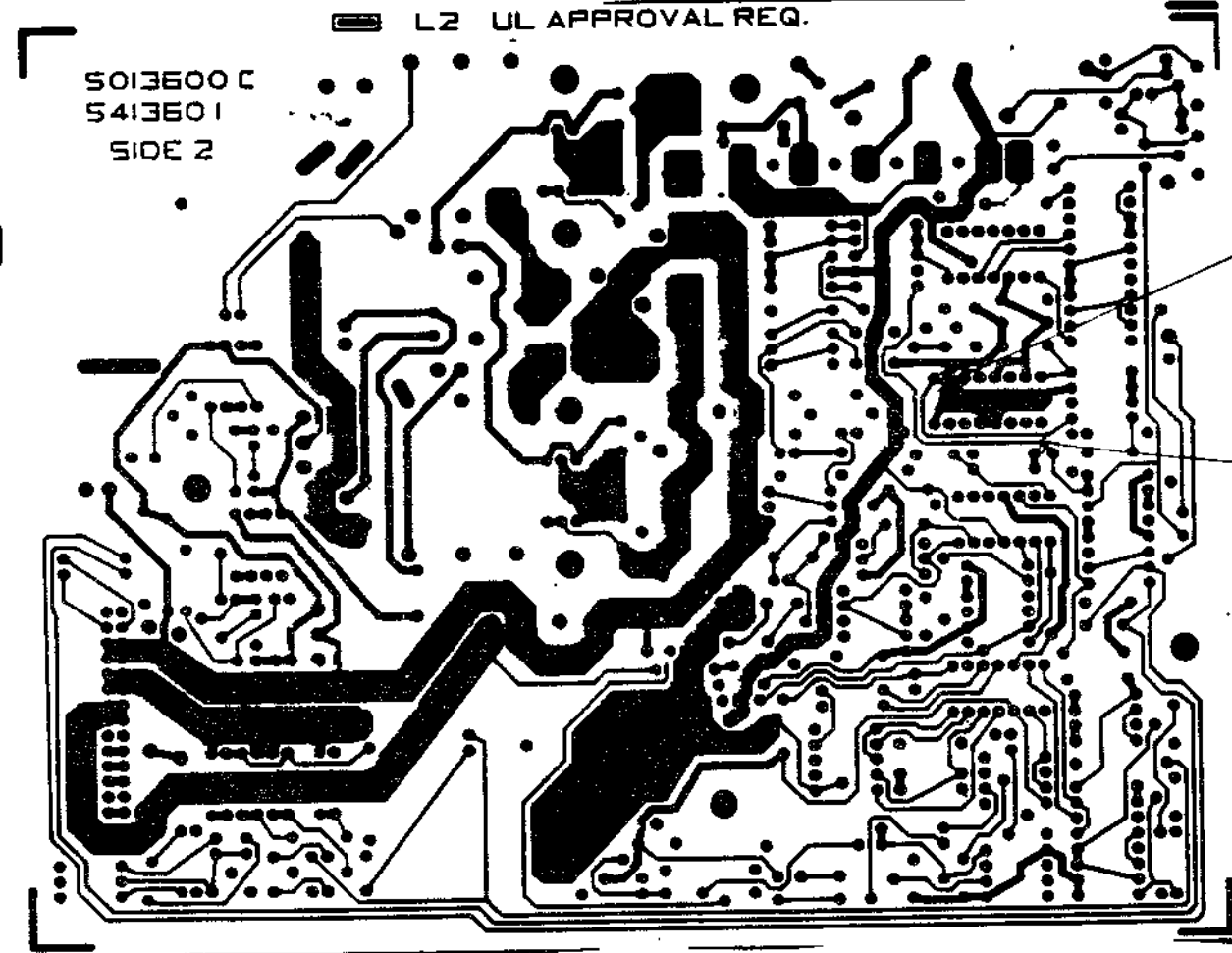
C

B

A

L2 UL APPROVAL REQ.

5013600 C  
5413601  
SIDE 2



DIA 5413601-0-0

TITLE	LOGIC INVERTER CONTROL BOARD	SIZE/CODE	DUA	NUMBER	5413601-0-0	REV	
DATE	71	SHEET	2	TOT	2		

3 7 6 5 4 3 2 1



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REWORK INSTRUCTIONS:

ETCH CUTS SIDE 2

- 0-1 CUT ETCH ON BOTH SIDES OF E3-10 (2 CUTS)
- 0-2 FROM R74 TO Q18 BASE (CUT NEAR BASE)

WIRE ADD SIDE 1

- 0-3 FROM E123 TO C31
- 0-4 FROM D49/CATHODE TO D29 CATHODE
- 0-5 FROM E3-8 TO C22
- 0-6 FROM E3-10 TO R74

REWORK INSTRUCTIONS: (ECO #)

- COMPONENT DELETE SIDE 1
- 1-1 DELETE C12

REWORK INSTRUCTIONS: (ECO #)

COMPONENT DELETES SIDE 1:

- 3-1 DELETE L20 DEC P/N 11-12594-01
- 3-2 DELETE D21 DEC P/N 11-12594-01
- 3-3 DELETE D22 DEC P/N 11-12594-01
- 3-4 DELETE C29 DEC P/N 11-12594-01
- 3-5 DELETE R82 DEC P/N 13-00791-00
- 3-6 DELETE R38 DEC P/N 13-00271-00
- 3-7 DELETE R40 DEC P/N 13-00271-00
- 3-8 DELETE R29 DEC P/N 13-11604-00
- 3-9 DELETE R30 DEC P/N 13-11604-00
- 3-10 DELETE R35 DEC P/N 13-11604-00
- 3-11 DELETE C42 DEC P/N 10-12783-00
- 3-12 DELETE C43 DEC P/N 10-12783-00
- 3-13 DELETE R36 DEC P/N 13-11604-00

COMPONENT ADDS SIDE 1:

- 3-14 ADD C20 DEC P/N 11-15273-00
- 3-15 ADD L22 DEC P/N 11-15273-00
- 3-16 ADD R82 DEC P/N 13-00716-00
- 3-17 ADD R38 DEC P/N 13-02379-00
- 3-18 ADD R40 DEC P/N 13-02379-00
- 3-19 ADD C42 DEC P/N 10-11683-00
- 3-20 ADD C43 DEC P/N 10-11683-00

WIRE ADDS SIDE 1:

- 3-21 ADD JUMPER DEC P/N 91-07560-03 IN FORMER LOCATION OF R30
- 3-22 ADD JUMPER DEC P/N 91-07560-03 IN FORMER LOCATION OF R36

REWORK INSTRUCTIONS

ECO #4

COMPONENT DELETES: SIDE 1

- 4-1 REMOVE R11, DEC P/N 1300365-00.
- 4-2 REMOVE R14, DEC P/N 1300365-00.
- 4-3 REMOVE R5, DEC P/N 1300365-00.
- 4-4 REMOVE Q14, DEC P/N 1510706-00.

COMPONENT ADDS: SIDE 1

- 4-5 ADD Q14, DEC P/N 1510706-00.
- 4-6 ADD C44, DEC P/N 1011740-03, SOLDER ONE LEAD TO E3-9, THE OTHER TO GROUND (APPROXIMATELY AS SHOWN). ADD TUBING, ITEM 129 TO BOTH LEADS OF C44.

REWORK INSTRUCTIONS PER ECO #7

COMPONENT ADDS SIDE 1

- 7-1 INSTALL D53, DEC P/N 1105275-00, ACROSS R82 WITH CATHODE TOWARD Q16.
- 7-2 INSTALL C47, DEC P/N 1010866-02, FROM LEAD OF R64, ADJACENT TO TH2 (-) AND (+) LEAD TO WIDE ETCH BETWEEN R64 AND R46.
- 7-3 INSTALL FERRITE BEADS L3-L4, DEC P/N 1623061-01, ON JUMPER ADJACENT TO C42.
- 7-4 INSTALL FERRITE BEAD L5, DEC P/N 1623061-01, ON JUMPER ADJACENT TO C43.
- 7-5 INSTALL C46, DEC P/N 1002315-00, FROM ANODE D19 TO JUNCTION OF R28 & R32.
- 7-6 INSTALL C45, DEC P/N 1010978-24, IN SERIES WITH R136, DEC P/N 1300202-00, ACROSS R34.

ECO #54:3601-LK005

COMPONENT DELETES: SIDE 1:

- 5-1 DELETE P/N 13-14023-00 (R31, R33)
- 5-2 DELETE P/N 13-00292-00 (R97)
- 5-3 DELETE P/N 13-09855-00 (R34)
- 5-4 DELETE P/N 13-10352-00 (R6)
- 5-5 DELETE P/N 13-03257-00 (R132)
- 5-6 DELETE P/N 13-01952-00 (R28, R32)

COMPONENT ADDS SIDE 1:

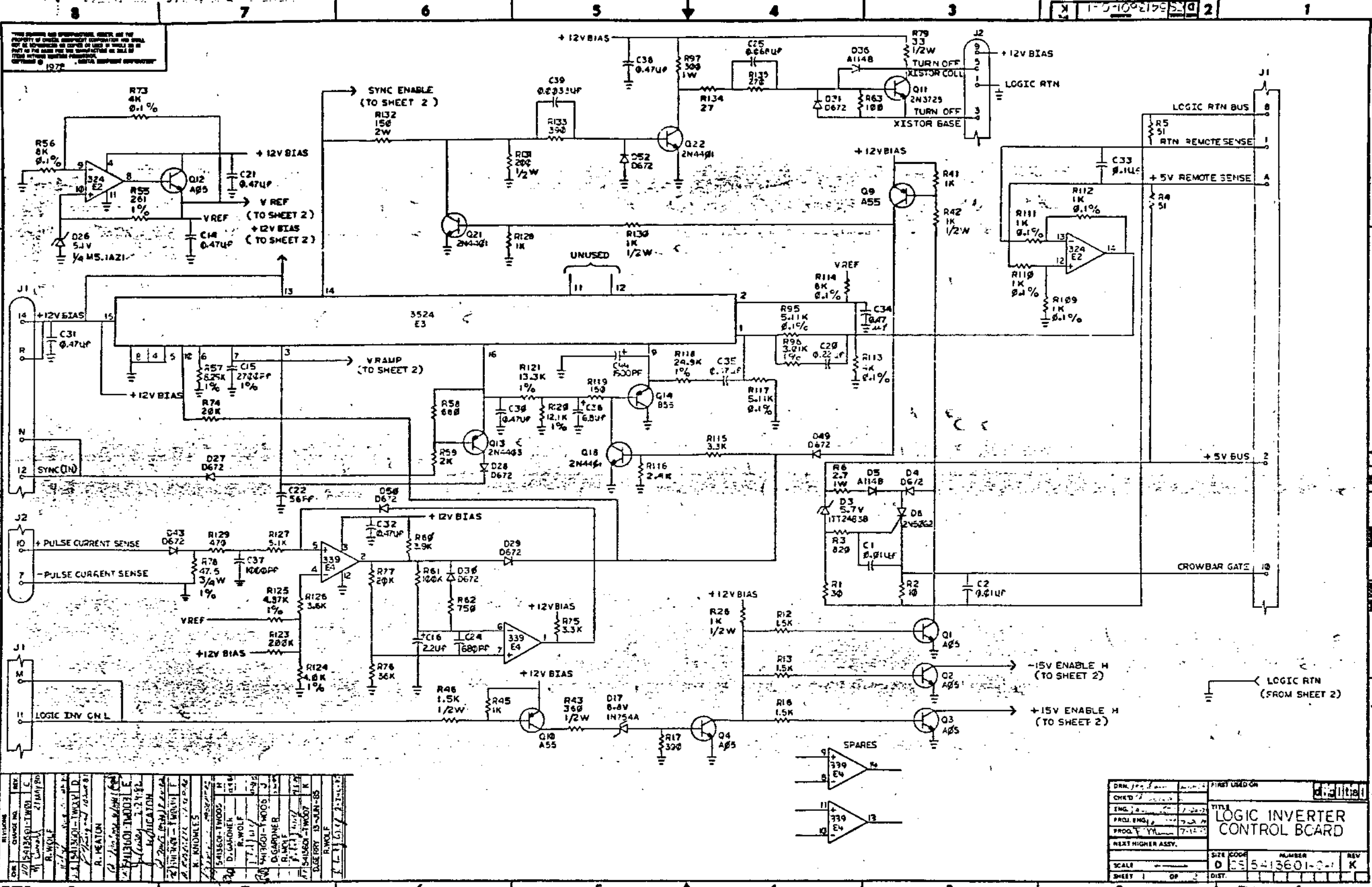
- \* THESE COMPONENTS MUST BE RAISED TO 0.05" TO 0.10"
- 5-7 ADD P/N 13-19471-02 (R31, R33)
- 5-8 ADD P/N 13-19471-22 (R97)
- 5-9 ADD P/N 13-19471-21 (R34)
- 5-10 ADD P/N 13-19471-02 (R6)
- 5-11 ADD P/N 13-19471-16 (R132)
- 5-12 ADD P/N 13-19471-29 (R28, R32)

REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE LOGIC INVERTER CONTROL BOARD

DOCUMENT NUMBER			
REV	CODE	NUMBER	REV
D	UA	5413601-C-C	
SCALE NONE		SHEET 4	OF 4

DUA 5413601-C-C



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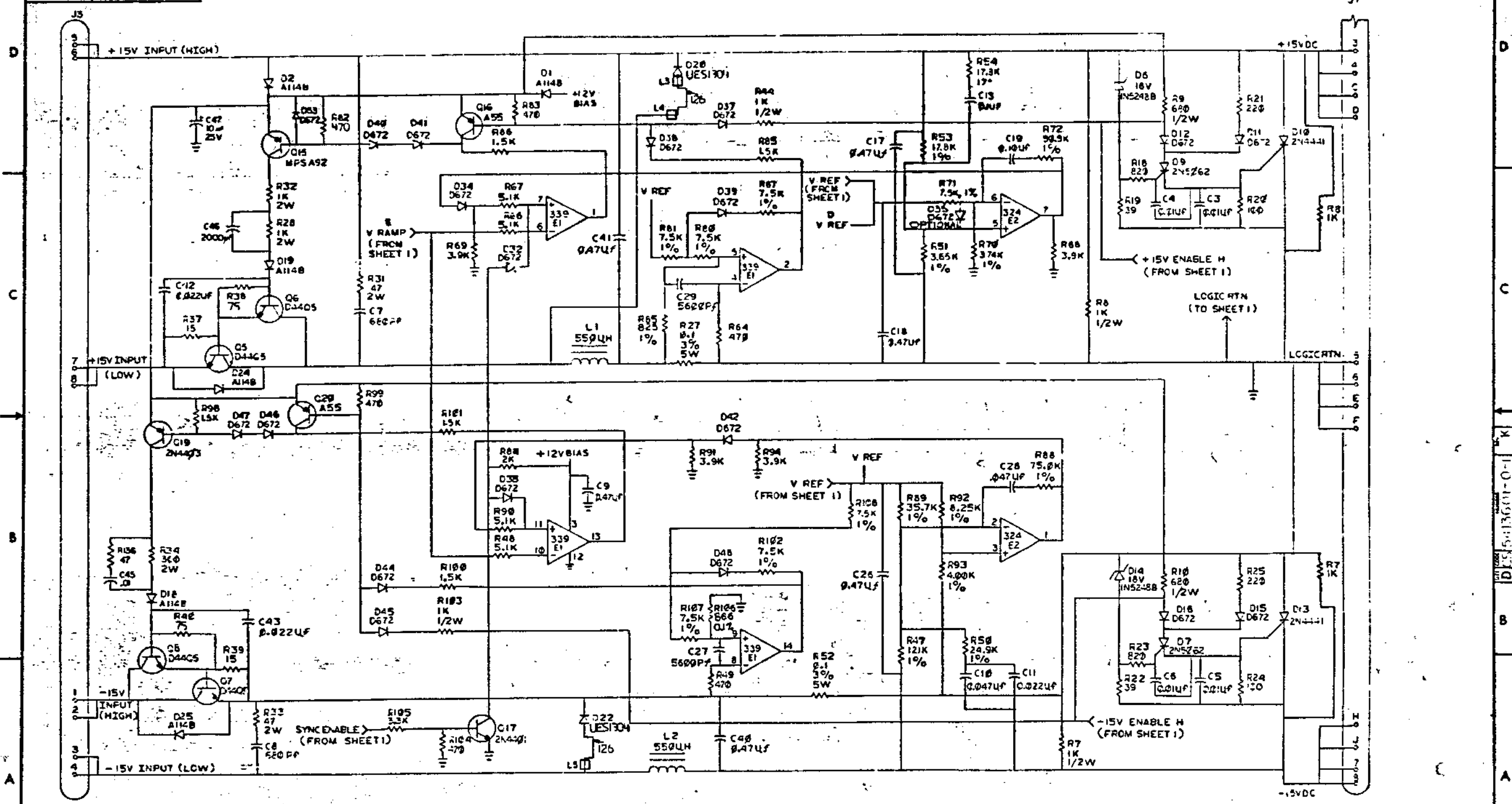
REV	DESCRIPTION	DATE	BY	CHKD
1	REVISED TO CORRECT	7/14/77	R. WOLF	
2	REVISED TO CORRECT	7/14/77	R. WOLF	
3	REVISED TO CORRECT	7/14/77	R. WOLF	
4	REVISED TO CORRECT	7/14/77	R. WOLF	
5	REVISED TO CORRECT	7/14/77	R. WOLF	
6	REVISED TO CORRECT	7/14/77	R. WOLF	
7	REVISED TO CORRECT	7/14/77	R. WOLF	
8	REVISED TO CORRECT	7/14/77	R. WOLF	

DRN	DATE	FIRST USED ON
CHKD		
ENG		
PROL ENG		
PROG		
NEXT HIGHER ASSY.		
SCALE		
SHEET	OP	

TITLE		
LOGIC INVERTER CONTROL BOARD		
SIZE CODE	NUMBER	REV
D 25	5413601-01	K
DIST.		

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LOGIC INVERTER CONTROL BOARD  
 SIZE CODE NUMBER REV.  
 DCS 5413201-0-1 K  
 SCALE SHEET 2 OF 2 DIST.



AUTOMATED BY VAXKPL (V1.2)

PARTS LIST

SHEET A1 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1	D-MD-5013600-0-0	50-13600-00		DRILL & ETCH BD	1	
2	2		10-10978-24		0.010MFD 50V +/-10% X7R C	7	C1-C6,C45
3	3		10-13280-00		680 PFD 1000V +/- 5% 200PP	2	C7,C8
4	4		10-10279-01		0.47 MFD 25V +/-20% Z5U C	14	C9,C14,C17,C18,C21,C26,C30-C32, CONT C34,C35,C38,C40,C41
5	5		10-10978-32		0.047MFD 50V +/-10% X7R C	2	C10,C28
6	6		10-11683-00		0.022MFD 50V +/-10% X7R C	3	C11,C42,C43
7	7		10-14170-00		2700 PFD 100V +/- 1% 70PP	1	C15
8	8		10-02627-00		2.2 MFD 20V +/-10% SOL	1	C16
9	9	#BLANK			*** THIS ITEM IS NOT USED ***	-	
10	10		10-10978-36		0.10 MFD 50V +/-10% X7R C	3	C13,C19,C33
11	11		10-10274-00		0.22 MFD 50V +80/-20% Z5U C	1	C20
12	12		10-00012-00		56 PFD 100V +/- 5% 200PP	1	C22
13	13		10-13466-08		680 PFD 50V +/-10% X7R C	1	C24
14	14		10-00052-00		0.068MFD 100V +/-10% MYLAR	1	C25
15	15	#BLANK			*** THIS ITEM IS NOT USED ***	-	
16	16		10-11740-00		5600 PFD 50V +/-10% X7R C	2	C27,C29
17	17		10-05306-00		6.8 MFD 35V +/-10% SOL	1	C36
18	18		10-13466-09		1000 PFD 50V +/-10% X7R C	1	C37
19	19		10-11740-01		3300 PFD 50V +/-10% X7R C	1	C39
20	20		11-12595-01		PIV= 200 IO= 1.00A AXIAL	8	D1,D2,D5,D18,D19,D24,D25,D36
21	21		11-11205-00		VZ= 5.7 2% 400 MW	1	D3
22	22		11-05275-00		PIV= 60 IO=300 MA -15NS	29	D4,D11,D12,D15,D16,D27-D34, CONT D37-D50,D52,D53
23	23		11-10766-00		VZ= 18.0 5% 500M2 1N52488 D	2	D6,D14
24	24		11-10968-00		SCR PIV= 100 IO= .80A 2N5062	3	D7-D9
25	25		11-09991-00		VZ= 6.8 5% 400 MW 1N754A	1	D17
26	26		11-15273-00		RECT,ULTRA FAST PIV= 200 IO= 3.0	2	D20,D22
27	27		11-05871-00		VZ= 5.15 1% 250 MW	1	D26
28	28	#BLANK			*** THIS ITEM IS NOT USED ***	-	
29	29		12-11728-00		CONN,P+S 01SKT	2	J2,J3
30	30		12-16112-01		PCB,HEADER 28POS(2X14),100CC 90D	1	J1

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A		DRN: J.LENT		DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE:	CHK'D:	DATE:	TITLE PARTS LIST				
	INITIAL	B	(A)	00	(M)	03-JAN-79	F.GERRY	19-JUL-79	LOGIC INVERTER CONTROL BD			
	INITIAL	B	(B)		(N)							
RW	5413601-TW001	C	(C)		(P)		J.A.HERRMANN		DOCUMENT NUMBER			
RH	5413601-TW002	D	(D)		(Q)	19-JUL-79			SIZE	CODE	NUMBER	REV
RH	5413601-TW003	E	(E)		(R)				K	PL	5413601-0-DBP	L
KK	5413601-TW004	F	(F)		(S)		J.A.HERRMANN		RELEASE DATE: 30-JUN-86			
RW	5413601-TW005	H	(H)		(T)	19-JUL-79			RELEASE STATUS: RELEASED			
RW	5413601-TW006	J	(J)		(V)							
RW	5413601-TW007	K	(K)		(W)		F.MUNIZ					
JA	5413601-LK008	L	(L)		(Y)	19-JUL-79						
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			5413601		D-UA-5413601-0-0		B-DD-5413601-0-0		Z0400L.PLS		3	

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PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						00		
						K2		
31	31		13-02751-00	30.0	.25 W 5.0 % CF	1		R1
32	32		13-01317-00	10.0	.25 W 5.0 % CF	1		R2
33	33		13-01775-00	820.0	.25 W 5.0 % CF	3		R3,R18,R23
34	34		13-12928-00	51.0	.25 W 5.0 % CF	2		R4,R5
35	35		13-19470-02	2.70	1.0 W 5.0 % M.OXIDE	1		R6
36	36		13-00364-00	1.0 K	.50 W 5.0 % CF	7		R7,R8,R26,R42,R44,R103,R130
37	37		13-00347-00	680.0	.50 W 5.0 % CF	2		R9,R10
38	38		13-00365-00	1.0 K	.25 W 5.0 % CF	3		R41,R45,R128
39	39		13-00391-00	1.50 K	.25 W 5.0 % CF	8		R12,R13,R16,R85,R86,R98,R100, CONT R101
40	40		13-00309-00	390.0	.25 W 5.0 % CF	2		R17,R133
41	41		13-02377-00	39.0	.25 W 5.0 % CF	2		R19,R22
42	42		13-00229-00	100.0	.25 W 5.0 % CF	3		R20,R24,R63
43	43		13-00271-00	220.0	.25 W 5.0 % CF	2		R21,R25
44	44		13-05872-00	.10	5.0 W 3.0 % WW	2		R27,R52
45	45		13-19471-29	1.0 K	2.0 W 5.0 % M.OXIDE	2		R28,R32
46	46	#BLANK			*** THIS ITEM IS NOT USED ***	-		
47	47		13-19471-08	47.0	2.0 W 5.0 % M.OXIDE	2		R31,R33
48	48		13-19471-21	300.0	2.0 W 5.0 % M.OXIDE	1		R34
49	49		13-01421-00	15.0	.25 W 5.0 % CF	2		R37,R39
50	50		13-05143-00	825.0	.25 W 1.0 % RN55D-F10	1		R65
51	51		13-02383-00	360.0	.50 W 5.0 % CF	1		R43
52	52		13-00394-00	1.50 K	.50 W 5.0 % CF	1		R46
53	53		13-03438-00	121.0 K	.25 W 1.0 % RN55D-F10	1		R47
54	54		13-00316-00	470.0	.25 W 5.0 % CF	7		R49,R64,R82,R83,R99,R104,R129
55	55		13-05405-00	24.90 K	.25 W 1.0 % RN55D-F10	2		R50,R118
56	56		13-05337-00	3.65 K	.25 W 1.0 % RN55D-F10	1		R51
57	57		13-12989-00	17.80 K	.25 W 1.0 % RN55D-F10	2		R53,R54
58	58		13-13151-00	3.60 K	.25 W 5.0 % CF	1		R126
59	59		13-02873-00	261.0	.25 W 1.0 % RN55D-F10	1		R55
60	60		13-05356-00	8.0 K	.25 W 0.10% RN55C-B 5	2		R56,R114
61	61	#BLANK			*** THIS ITEM IS NOT USED ***	-		
62	62		13-12930-00	5.10 K	.25 W 5.0 % CF	5		R48,R66,R67,R90,R127
63	63		13-00444-00	3.90 K	.25 W 5.0 % CF	5		R60,R68,R69,R91,R94
64	64		13-02466-00	100.0 K	.25 W 5.0 % CF	1		R61
65	65		13-01401-00	750.0	.25 W 5.0 % CF	1		R62
66	66	#BLANK			*** THIS ITEM IS NOT USED ***	-		
67	67		13-02391-00	20.0 K	.25 W 5.0 % CF	2		R74,R77
68	68		13-12452-00	3.74 K	.25 W 1.0 % RN55D-F10	1		R70
69	69		13-13344-00	75.0 K	.25 W 1.0 % RN55D-F10	1		R88
70	70		13-11320-00	90.90 K	.25 W 1.0 % RN55D-F10	1		R72
71	71		13-04728-00	4.0 K	.25 W 0.10% RN55E-B 2	2		R73,R113
72	72		13-00439-00	3.30 K	.25 W 5.0 % CF	3		R75,R105,R115
73	73		13-12932-00	36.0 K	.25 W 5.0 % CF	1		R76
74	74		13-01459-00	47.50	.75 W 1.0 % RN65D-F10	1		R78
75	75		13-00195-00	33.0	.50 W 5.0 % CF	1		R79
76	76		13-05322-00	7.50 K	.25 W 1.0 % RN55D-F10	7		R71,R80,R81,R87,R102,R107,R108
77	77		13-02388-00	2.0 K	.25 W 5.0 % CF	2		R59,R84
78	78		13-05421-00	35.70 K	.25 W 1.0 % RN55D-F10	1		R89
79	79		13-05325-00	8.25 K	.25 W 1.0 % RN55D-F10	2		R57,R92

D	I	G	I	T	A	L	TITLE	SECTION	SIZE	CODE	DOCUMENT NUMBER	REV
							LOGIC INVERTER CONTROL BD	A	K	PL	5413601-0-DBP	L

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						00		
						K2		
80	80		13-05127-00	4.0 K	.25 W 1.0 % RN55D-F10	2		R93,R124
81	81		13-05432-00	5.11 K	.25 W 0.1 % RN55E-B 2	2		R95,R117
82	82		13-14041-00	3.01 K	.25 W 1.0 % RN55D-F10	1		R96
83	83		13-19470-22	300.0	1.0 W 5.0 % M.OXIDE	1		R97
84	84		13-04865-00	1.0 K	.25 W 0.1 % RN55E-B 2	4		R109-R112
85	85		13-00250-00	150.0	.25 W 5.0 % CF	1		R119
86	86		13-03313-00	12.10 K	.25 W 1.0 % RN55D-F10	1		R120
87	87		13-12565-00	13.30 K	.25 W 1.0 % RN55D-F10	1		R121
88	88	#BLANK			*** THIS ITEM IS NOT USED ***	-		
89	89	#BLANK			*** THIS ITEM IS NOT USED ***	-		
90	90		13-02381-00	200.0	.50 W 5.0 % CF	1		R131
91	91		13-19471-16	150.0	2.0 W 5.0 % M.OXIDE	1		R132
92	92		13-01522-00	27.0	.25 W 5.0 % CF	1		R134
93	93		13-01972-00	270.0	.25 W 5.0 % CF	1		R135
94	94		15-10705-00	XA 05	NPN 500MW SI 60 50 P	5		Q1-Q4,Q12
95	95		15-14271-01	D 4405	NPN 31W SI225 30	4		Q5-Q8
96	96		15-10706-00	XA 55	PNP 500MW SI 60 50 P	4		Q9,Q10,Q16,Q20
97	97		15-10959-00	2N 3725	NPN 3.5WC SI 50 60 P	1		Q11
98	98		15-13490-00	2N 4403	PNP 350MW SI-40 30	2		Q13,Q19
99	99		15-16121-00	MPS A92	PNP 625MW SI300 25	1		Q15
100	100		15-13489-00	2N 4401	NPN 350MW SI 40 20	4		Q17,Q18,Q21,Q22
101	101		15-05867-00	SCR PIV=	50 IO= 8.00A 2N4441	2		D10,D13
102	102		16-16213-00	450.0 UH	4 A	2		L1,L2
103	103		19-12108-00	LM339	VOLT CMPRTR,QUAD	2		E1,E4
104	104		19-12107-00	324	OP AMP,QUAD	1		E2
105	105		19-14250-00	3524	MODULATOR-REGULATING	1		E3
106	106		74-22047-01		HEAT SINK DOUBLE	2		
107	107		13-01424-00	680.0	.25 W 5.0 % CF	1		R58
108	108		90-06039-01		SCREW,MACH PAN PHIL 8-	2		
109	109		90-06660-00		WASHER,FLAT SST	4		
110	110		90-06690-00		WASHER,HELICAL SPLIT SST	2		
111	111		13-03177-00	2.40 K	.25 W 5.0 % CF	1		R116
112	112		90-06011-01		SCREW,MACH PAN PHIL 4-	4		
113	113		90-09769-00		WASHER,RECTNGLR STEEL	4		
114	114		90-06556-00		NUT,HEX 4-40X .264AF SS/N	4		
115	115		90-06688-00		WASHER,HELICAL SPLIT SST	4		
116	116		90-10128-00		SCREW,THD RL,PAN PHIL F/METAL	4		
117	117		90-07201-00		PAD,MOUNTING,COMPONENT	1		C23
118	118		90-08268-00		COMPOUND, THERMAL JOINT	A/R		
119	119		13-14516-00	200.0 K	.25 W 5.0 % CF	1		R123
120	120		13-13592-00	4.87 K	.25 W 1.0 % RN55D-F10	1		R125
121	121		91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R		
122	122	#BLANK			*** THIS ITEM IS NOT USED ***	-		
123	123	#BLANK			*** THIS ITEM IS NOT USED ***	-		
124	124		13-09293-00	866.0	.25 W 0.1 % RN55E-B 2	1		R106
125	125		13-02379-00	75.0	.25 W 5.0 % CF	2		R38,R40
126	126		91-07560-03		WIRE,BUSS 18AWG TIN BARE	A/R		
127	127		15-10706-01	B 55	PNP 500MW SI 60 50	1		Q14
128	128		10-11740-03	1500	PFD 50V +/-10% X7R C	1		C44
129	129		91-07256-11		TUBING,TEFLON .027ID	A/R		

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							LOGIC INVERTER CONTROL BD		K	PL	5413601-0-DBP	L

AUTOMATED BY YAXKPL (V1.2)

PARTS LIST

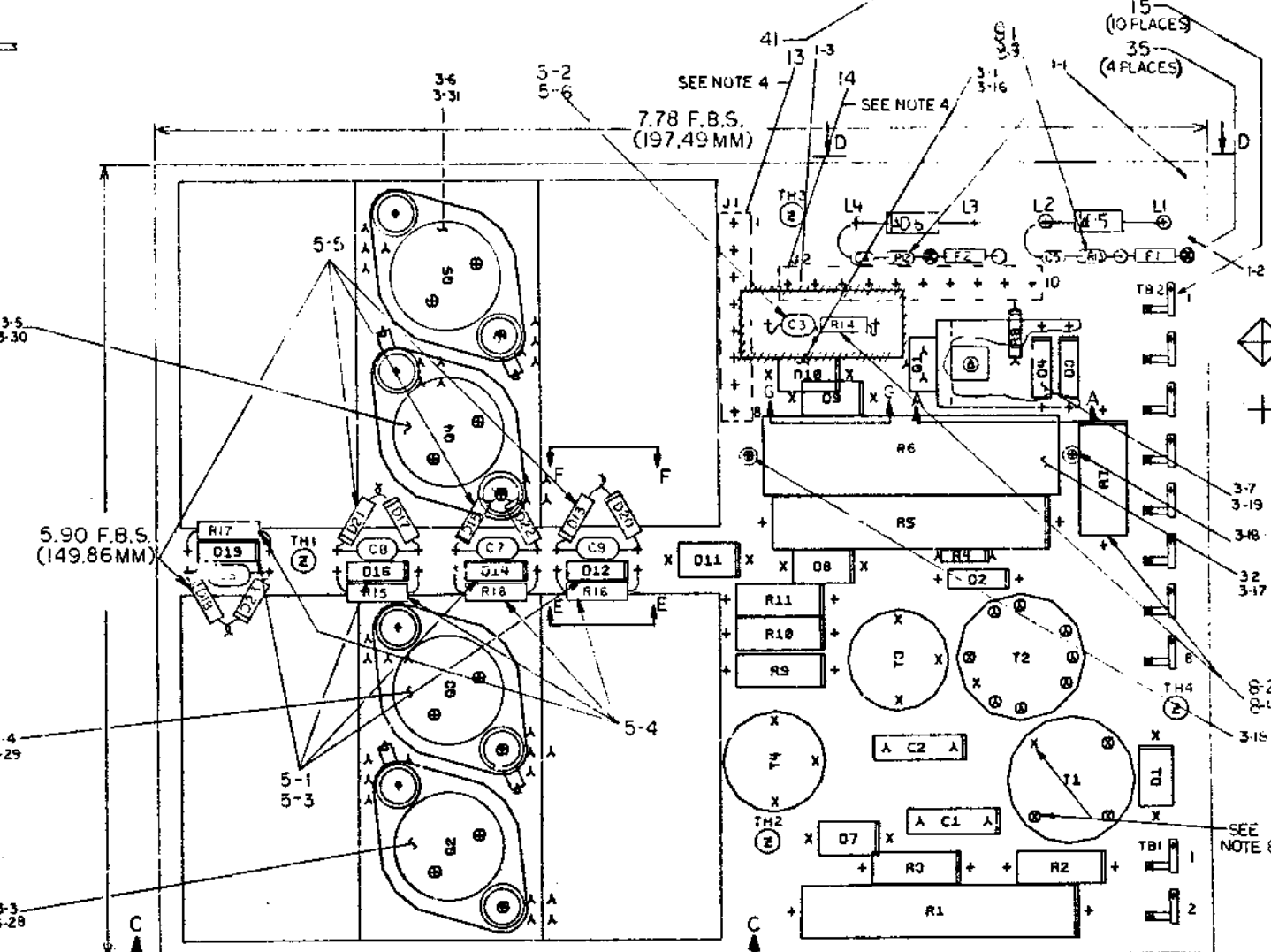
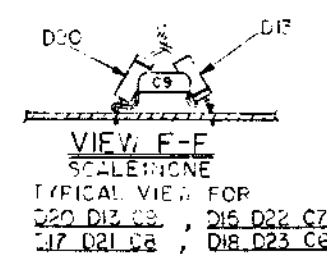
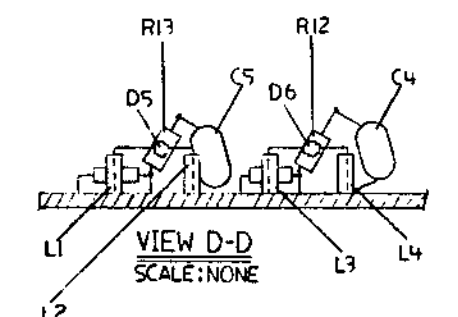
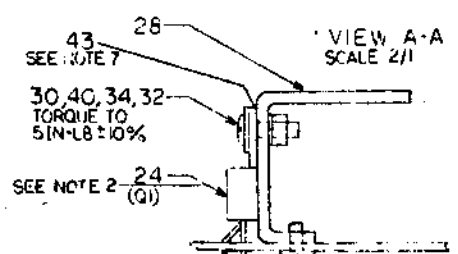
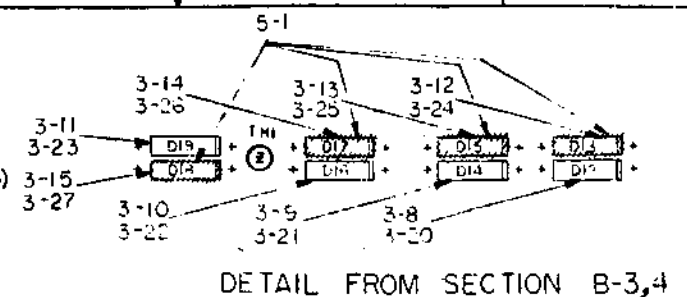
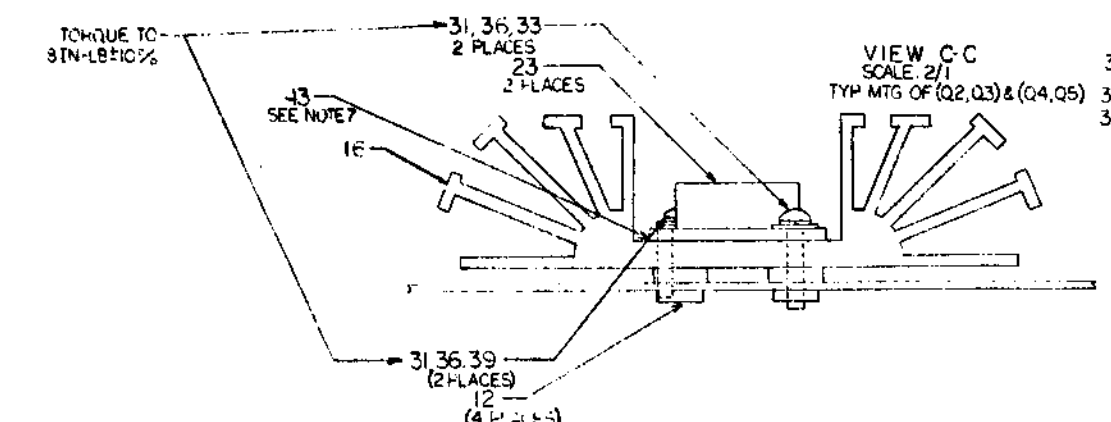
SHEET A4 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
130	130		10-02315-00		2000 PFC 500V +/- 5% 200PP	1		C46
131	131		10-10866-02		10 MFD 25V +50/-20% SOL	1		C47
132	132		16-23061-01		BEAD, FERRITE, SHIELDED 134 OHMS	3		L3-L5
133	133		13-00202-00		47.0 .25 W 5.0 % CF	1		R136

1 GEN: ITEM #121: .52' IS USED.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							LOGIC INVERTER CONTROL BD		K	PL	5413601-0-DBP	L

THIS DRAWING IS UNCLASSIFIED, EXCEPT FOR THE PORTION OF THIS DRAWING WHICH IS IDENTIFIED BY THE FOLLOWING REFERENCE TO THE ORIGINAL SOURCE: MIL-STD-883C, METHOD 2000, TEST METHOD 2000.1, 1975



- NOTES:
- 1 FOR STEP AND REPEAT DIM'S SEE DIML39
  - 2 Q1 MUST BE MOUNTED TO HEATSINKS BEFORE BEING ATTACHED TO P.C.B.
  - 3 FOR ASSM OF ITEM 23 SEE VIEW C
  - 4 J1 AND J2 TO BE MOUNTED ON SIDE 2
  - 5 RAISE R15-NO RE.125 TO 150' OFF P.C.B.
  - 6 RAISE D17 & D18 AND R37 & R38 TO ICC

CHANGE NO	REV	DATE	BY	CHK'D	APP'D
1	1	2-9-79	R. RICHARD		
2	1	2-9-79	S. KNOWLES		
3	1	2-9-79	D. GARDNER		
4	1	2-9-79	C. SKOOLICAS		
5	1	2-9-79	R. WOLF		
6	1	2-9-79	T. J. L. LEE		
7	1	2-9-79	D. W. HARRIS		
8	1	2-9-79	M. HALL		

- NOTES:
- 7 USE THERMAL COMPOUND ITEM 43 BETWEEN Q2, Q3, Q4, Q5, Q1 AND HEATSINK.
  - 8 LARGER DIAMETER LEADS IN THESE TWO POSITIONS.
  - 9 TOP FIN OF ITEM 23 (HEATSINK) MUST BE INSTALLED PARALLEL TO EDGE OF BOARD.

ETCH REV.	DATE	BY	CHK'D
P.C. DESIGN DATA			
BASE REV.			

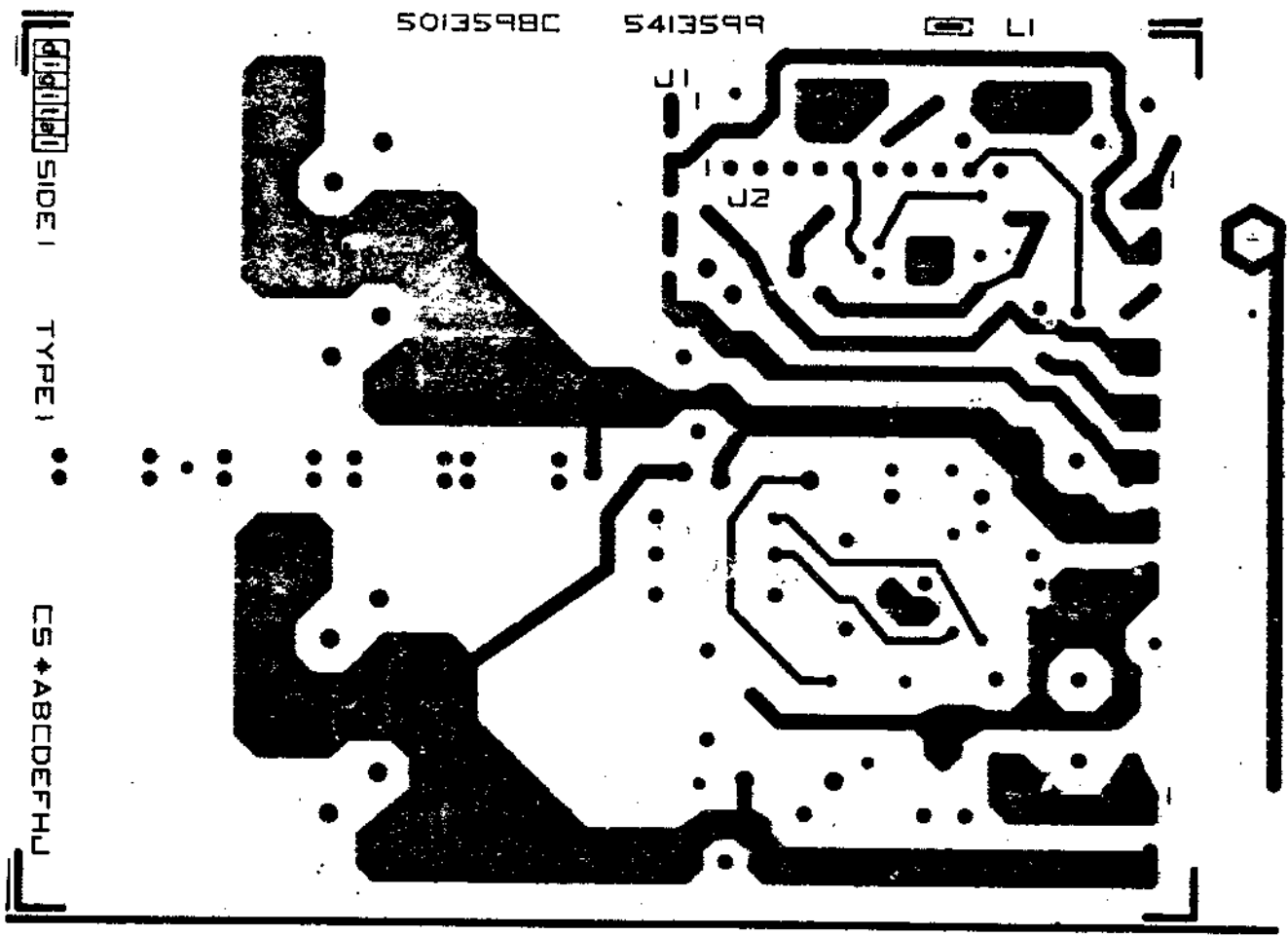
SIGNATURES	DATE	TITLE
DRN. <i>[Signature]</i>	2-9-79	LOGIC INVERTER BD.
CHK'D. <i>[Signature]</i>	2-9-79	
ENG. <i>[Signature]</i>	2-9-79	
PROJ. ENG. <i>[Signature]</i>	2-9-79	
PROD. <i>[Signature]</i>	2-9-79	

SIZE	CODE	NUMBER	REV
D	UA	54-13599-0-01	H



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H 0-0-6652109 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: LOGIC INVERTER BOARD  
 SCALE: 1/1  
 SHEET: 2 OF 4  
 SIZE CODE: D UA  
 NUMBER: 5413599-0-0  
 REV.: H

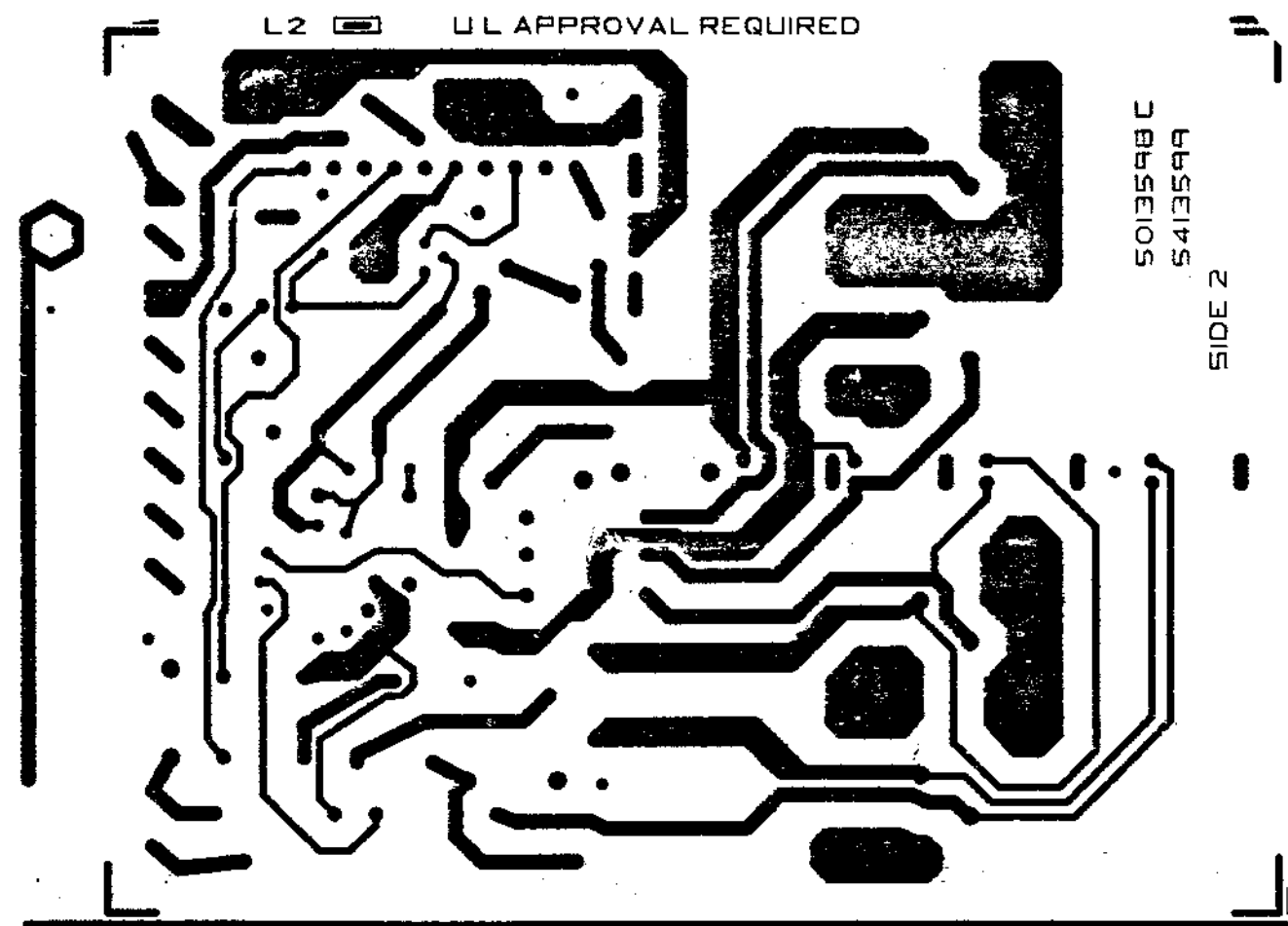
D UA 5413599-0-C H

TW 1

8 7 6 5 4 3 2 1

DJA 5413599-0-0 H 2

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5013598 C  
5413599  
SIDE 2

REVISIONS		
REV.	CHANGE NO.	REV.

8	7	6	5	4	3	2	1			
TITLE LOGIC INVERTER BOARD						SCALE 2/1	SHEET 3 OF 4	SIZE CODE D JA	NUMBER 5413599-0-0	REV. H
							DIST.	TW		

DJA 5413599-0-0 H

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8 7 6 5 4 3 2 1

**REWORK INSTRUCTION (ECO#1)**  
**COMPONENT ADDS: SIDE 1:**  
 1-1 INSTALL R13 BY DRILLING ONE .055" HOLE AS SHOWN. (HOLE IS UNDERNEATH R13)  
 1-2 C5 AND R13 ARE CONNECTED BY TWISTING ONE LEAD OF R13 WITH ONE LEAD OF C5 AND SOLDERING. THE OTHER LEAD OF R13 IS TACK SOLDERED TO THE ETCH ON SIDE 2 LEADING TO THE CATHODE OF D5. THE OTHER LEAD OF C5 IS CONNECTED TO THE ANODE OF D5. (SEE VIEW D-D)  
 1-3 R12 AND C4 ARE CONNECTED BY TWISTING ONE LEAD OF R12 WITH ONE LEAD OF C4 AND SOLDERING. THE OTHER LEAD OF R12 IS CONNECTED TO THE ANODE OF D6. THE OTHER LEAD OF C4 IS TACK SOLDERED TO J1-1 AND 2. (SEE VIEW E-E)

**REWORK INSTRUCTION (ECO#3)**  
**COMPONENT DELETES: SIDE 1**  
 3-1 REMOVE D10 DEC. PT. NO. 112594-02  
 3-2 REMOVE R6 DEC. PT. NO. 1314172-01  
 3-3 REMOVE Q2  
 3-4 REMOVE Q3 } DEC. PT. NO. 1511195-00  
 3-5 REMOVE Q4 }  
 3-6 REMOVE Q5 }  
 3-7 REMOVE D4 DEC. PT. NO. 112595-01  
 3-8 REMOVE D12  
 3-9 REMOVE D14 } DEC. PT. NO. 112595-00  
 3-10 REMOVE D16 }  
 3-11 REMOVE D19 }  
 3-12 REMOVE D17 } DEC. PT. NO. 1114435-00  
 3-13 REMOVE D15 }  
 3-14 REMOVE D17 }  
 3-15 REMOVE D13 }

**COMPONENT ADD: SIDE 1**  
 3-16 ADD D10 DEC. PT. NO. 1115273-01  
 3-17 ADD R6 DEC. PT. NO. 1305260-00 (SEE 3-18)  
 3-18 ADD SPACER ITEM 47 DEC. PT. NO. 9009798 01 TO EACH LEAD OF R6  
 3-19 ADD D4 DEC. PT. NO. 1115273-00  
 3-20 ADD D12 } DEC. PT. NO. 1105769-01  
 3-21 ADD D14 }  
 3-22 ADD D16 }  
 3-23 ADD D19 }  
 3-24 ADD D17 } DEC. PT. NO. 1105796-01  
 3-25 ADD D15 } REVERSE POLARITY FOR  
 3-26 ADD D17 } THESE 4 PARTS WHEN  
 3-27 ADD D12 } ASSEMBLING  
 3-28 ADD Q2 }  
 3-29 ADD Q3 } DEC. PT. NO. 1517365-00  
 3-30 ADD Q4 }  
 3-31 ADD Q5 }

**REWORK INSTRUCTIONS ECO#5**  
**COMPONENT DELETES: SIDE 1:**  
 5-1 DELETE D12-D19 DEC P/N 105796-01.  
 5-2 DELETE C3 DEC P/N 1017313-00.

**COMPONENT ADDS: SIDE 1:**  
 5-3 ADD D12, D14, D16, D19, DEC P/N 1114602-00.  
 5-4 ADD R15, R16, R17, R18, DEC P/N 1300316-00 TO D12, D14, D16, D19, AS SHOWN IN DETAIL E-E.  
 5-5 ADD D13 & D20 DEC P/N 1105796-00  
 ADD C6-C9 DEC P/N 1010274-02.

CONNECT D13 IN SERIES WITH D20. CONNECT C9 IN PARALLEL WITH D13 AND D20 AS IN VIEW F-F. CONNECT D15 IN SERIES WITH D22. CONNECT C7 IN PARALLEL WITH D15 AND D22 AS IN VIEW F-F. CONNECT D17 IN SERIES WITH D21. CONNECT C8 IN PARALLEL WITH D17 AND D21 AS IN VIEW F-F. CONNECT D18 IN SERIES WITH D23. CONNECT C6 IN PARALLEL WITH D18 AND D23 AS IN VIEW F-F.  
 NOTE: BE SURE CAPACITORS ARE ON SIDE NEAREST HEAT SINK AS SHOWN IN VIEW F-F TO PREVENT DIODES FROM SHORTING TO HEAT SINK.

5-6 ADD C3 DEC P/N 1017425-00  
 ADD R14 DEC P/N 1305380-00  
 CONNECT C3 IN SERIES WITH R14 AS SHOWN IN VIEW G-G

**REWORK INSTRUCTIONS ECO#8**  
**COMPONENT DELETES: SIDE 1:**  
 8-1 DELETE P/N 13-02199-00 (R12, R13)  
 8-2 DELETE P/N 13-05380-00 (R7, R14)

**COMPONENT ADDS: SIDE 1:**  
 8-3 ADD P/N 13-19255-20 (R12, R13)  
 8-4 ADD P/N 13-19471-20 (R7, R14)  
 THESE COMPONENTS MUST BE RAISED 0.05" TO 0.10".

REVISION HISTORY		
DATE	ECO NUMBER	REV.

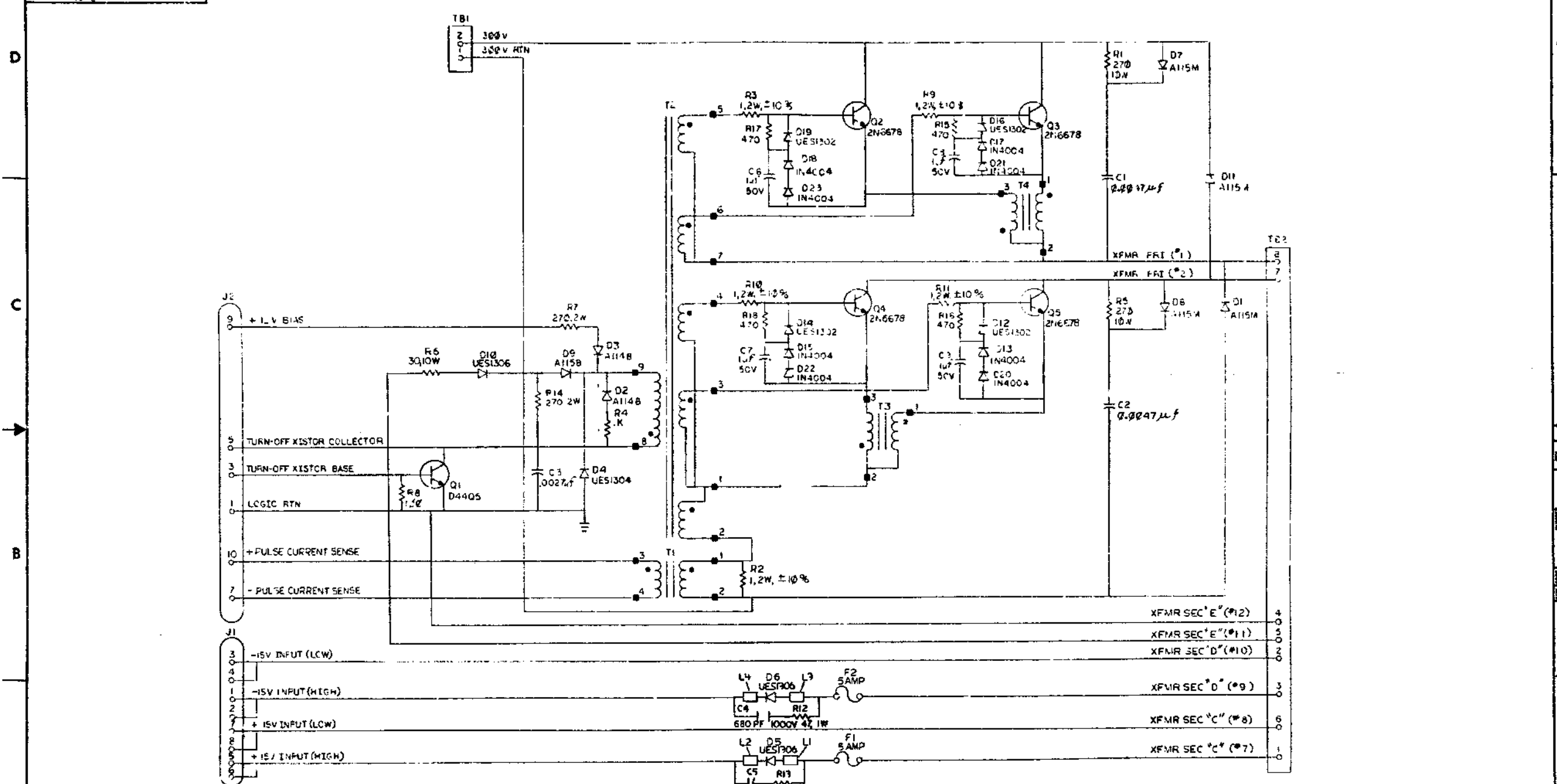
TITLE		DOCUMENT NUMBER	
LOGIC INVERTER BOARD		54-13599-00	H
SCALE 2/1	SHEET 1 OF 1		

8 7 6 5 4 3 2 1

DUA 54-13599-0-0 H B A

TW 1

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REV	DATE	BY	CHK'D	APP'D
1	5/11/78	W. W. WOOD		
2	5/11/78	W. W. WOOD		
3	5/11/78	W. W. WOOD		
4	5/11/78	W. W. WOOD		
5	5/11/78	W. W. WOOD		
6	5/11/78	W. W. WOOD		
7	5/11/78	W. W. WOOD		
8	5/11/78	W. W. WOOD		

DRN	5/11/78	W. W. WOOD	FIRST USED ON	digital
CHK'D			TITLE	LOGIC INVERTER BOARD
ENG			SIZE	D
PRD. ENH.			CODE	CS 8413599-0-1
PROD. YR.	78		NUMBER	J
NEXT HIGHER ASSY.			REV.	
SCALE			SHEET	1 OF 1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
1	1	D-MD-5013598-0-0	50-13598-00		DRILL & ETCH BD	1		
2	2		10-11847-03		4700 PFD 600V +/-10% POLYP	2		C1,C2
3	3		10-17426-01		2700 PFD 250V +/-10% POLYP	1		C3
4	4		11-12594-01		PIV= 200 IO= 3.00A	1		D9
5	5		11-12594-02		PIV= 600 IO= 3.00A	4		D1,D7,D8,D11
6	6		11-05796-00		PIV= 400 IO= 1.00A 1N4004 DO-41	8		D13,D15,D17,D18,D20-D23
7	7		11-12595-01		PIV= 200 IO= 1.00A AXIAL	2		D2,D3
8	8	#BLANK			*** THIS ITEM IS NOT USED ***	-		
9	9	#BLANK			*** THIS ITEM IS NOT USED ***	-		
10	10		12-05747-00		FUSE PICO 5.0 A 125V AXIAL LEA	2		F1,F2
11	11	#BLANK			*** THIS ITEM IS NOT USED ***	-		
12	12		12-14789-00		INSERT, THREAD	8		
13	13		12-16108-00		PCB, HEADER 08POS (1X08), 200CC STR	1		J1
14	14		12-16108-01		PCB, HEADER 01POS (1X01), 200CC STR	1		J2
15	15		12-16269-00		TERM, SPADE .145STUD SOLDER	10		
16	16		12-16316-00		HEAT SINKS, .02.50X03.9	2		
17	17		13-00229-00		100.0 .25 W 5.0 % CF	1		R8
18	18		13-00365-00		1.0 K .25 W 5.0 % CF	1		R4
19	19		13-19471-20		270.0 2.0 W 5.0 % M.OXIDE	2		R7,R14
20	20		13-14350-00		1.0 2.0 W 10.0 % WW FUS	5		R2,R3,R9-R11
21	21		13-05260-00		30.0 10.0 W 1.0 % WW	1		R6
22	22		13-14544-00		270.0 10.0 W 5.0 % WW	2		R1,R5
23	23		15-17365-00		2N 6678 NPN 175W SI	4		Q2-Q5
24	24		15-14271-01		D 4405 NPN 31W SI225 30	1		Q1
25	25		16-14202-00		XFMR, CURRENT	1		T1
26	26		16-14203-00		CHOKE, BALUN-COMMON MODE	2		T3,T4
27	27		16-14204-00		PULSE XFMR 20312 BALUN DRIVE	1		T2
28	28		74-22046-00		HEAT SINK, SINGLE	1		
29	29	#BLANK			*** THIS ITEM IS NOT USED ***	-		
30	30		90-06011-01		SCREW, MACH PAN PHIL 4-	1		
31	31		90-06025-01		SCREW, MACH PAN PHIL 6-	8		
32	32		90-06556-00		NUT, HEX 4-40X .264AF SS/N	1		

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A		DRN: K. FRIDGEN		DIGITAL				
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 20-JUL-79		CHK'D: F. GERRY		TITLE PARTS LIST				
---	INITIAL	B	[A]	00	[M]	DATE: 20-JUL-79		DATE: 20-JUL-79		LOGIC INVERTER BD			
RR	5413599-TW001	C	[B]		[N]			DES. ENG: J. A. HERRMANN					
RH	5413599-TW002	D	[C]		[P]			DATE: 20-JUL-79		DOCUMENT NUMBER			
RH	5413599-TW002	D	[D]		[Q]					SIZE	CODE	NUMBER	REV
KK	5413599-TW003	E	[E]		[R]			RESP. ENG.: J. A. HERRMANN		K	PL	5413599-0-DBP	J
CS	5413599-TW004	F	[F]		[S]			DATE: 20-JUL-79		RELEASE DATE: 07-JUL-87			
RW	5413599-TW005	H	[H]		[T]			MFG. ENG: F. MUNIZ		RELEASE STATUS: RELEASED			
JA	5413599-LK008	J	[J]		[V]			DATE: 20-JUL-79					
			[K]		[W]								
			[L]		[Y]								
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #		
			5413599		D-UA-5413559-0-0		K-DD-5413599-0-0		5413599J2.PLS		2		

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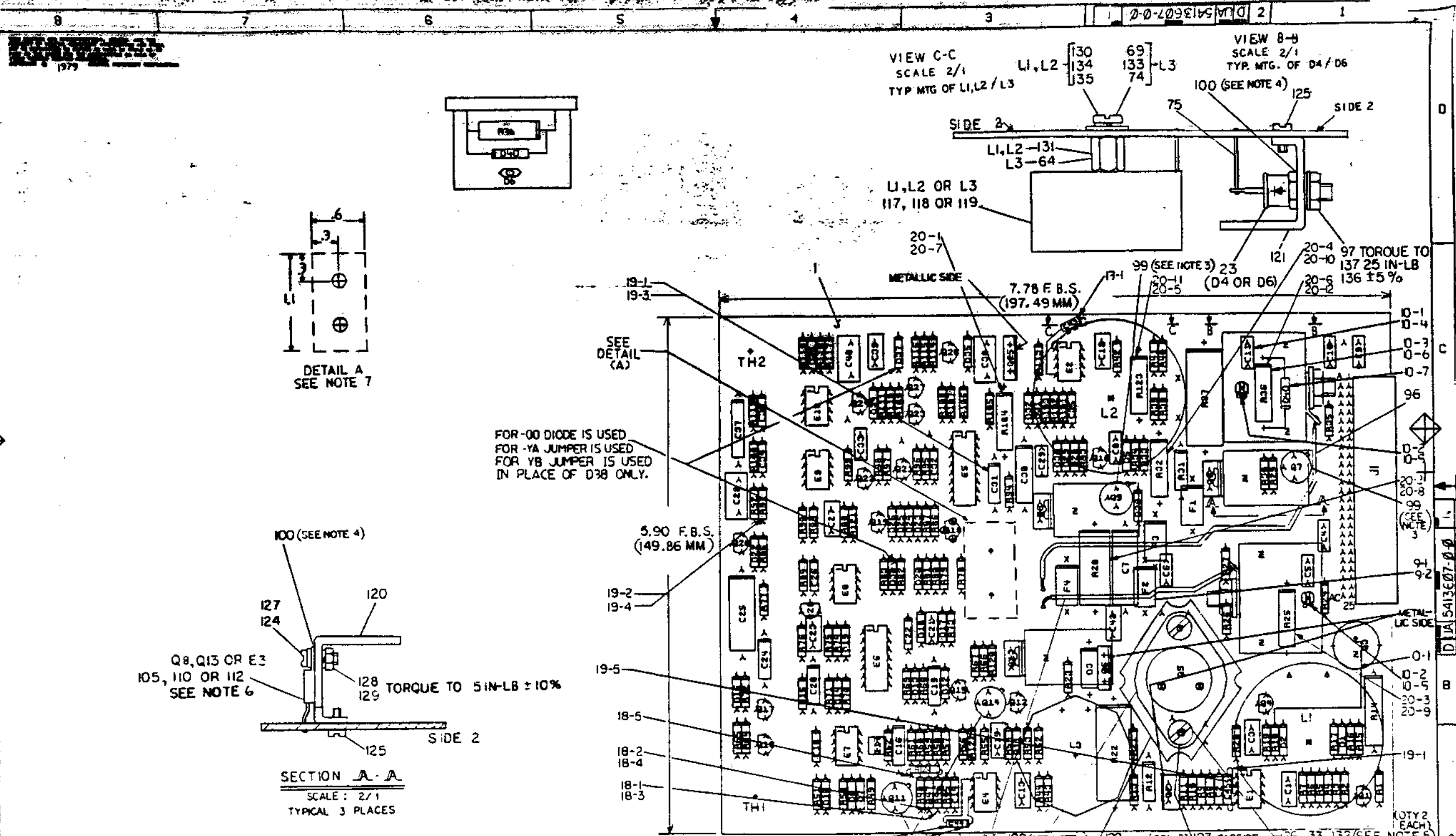
AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A2 OF A2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						00 J2	
33	33		90-06656-00		WASHER, FLAT STEEL	4	
34	34		90-06688-00		WASHER, HELICAL SPLIT SST	1	
35	35		90-06735-00		EYELET, FUNNEL 0.0590DX0.187	4	
36	36		90-07801-00		WASHER, HELICAL SPLIT SST	8	
37	37	#BLANK			*** THIS ITEM IS NOT USED ***	-	
38	38	#BLANK			*** THIS ITEM IS NOT USED ***	-	
39	39		90-09676-00		TERM, SOLDER BARRIER STR	4	
40	40		90-09769-00		WASHER, RECTNGLR STEEL	1	
41	41		90-10128-00		SCREW, THD RL, PAN PHIL F/METAL	1	
42	42	#BLANK			*** THIS ITEM IS NOT USED ***	-	
43	43		90-08268-00		COMPOUND, THERMAL JOINT	A/R	
44	44		10-13280-00		680 PFD 1000V +/- 5% 200PP	2	C4, C5
45	45		13-19255-20		47.0 1.0 W 5.0 % M.OXIDE	2	R12, R13
46	46		11-15273-01		RECT, ULTRA FAST PIV= 400 IO= 5.00	3	D5, D6, D10
47	47		90-09798-01		SPACER, CLEAR HOLE RND CERAM .07	2	
48	48		11-15273-00		RECT, ULTRA FAST PIV= 200 IO= 3.0	1	D4
49	49		16-23061-01		BEAD, FERRITE, SHIELDED 134 OHMS	4	L1-L4
50	50		13-00316-00		470.0 .25 W 5.0 % CF	4	R15-R18
51	51		11-14602-00		RECT, ULTRA FAST PIV= 100 IO= 4.0	4	D12, D14, D16, D19
52	52		10-10274-02		1.0 MFD 50V +80/-20% Z5U C	4	C6-C9

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							LOGIC INVERTER BD		K	PL	5413599-0-DBP	J



NOTES:

1	TRANSISTORS MUST BE MOUNTED TO HEAT SINKS
2	RESISTORS MUST BE MOUNTED TO HEAT SINKS
3	DIODES MUST BE MOUNTED TO HEAT SINKS
4	IC'S MUST BE MOUNTED TO HEAT SINKS
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100	IC'S MUST BE MOUNTED TO HEAT SINKS

- TORQUE TO 5 IN LB ± 10%.
- IC'S MUST BE MOUNTED TO HEAT SINKS BEFORE BEING ATTACHED TO PCB.
- MASK THIS AREA ON SIDE 2 ONLY, KEEP FREE OF SOLDER.

SIGNATURES		DATE
DRN. P. RICHARD TELLER		11-27-67
CHK'D. [Signature]		11-27-67
TECH. ENG. [Signature]		
PROJ. ENG. [Signature]		
PROD. [Signature]		
SCALE		
SMT. OF		
NEXT NUMBER REV. 100-411073		
TITLE		MEMORY REGULATOR
SIZE CODE		0 U A 15413607-0-0
NUMBER		REV
		M

7180

**REWORK INSTRUCTION**

WIRE ADD SIDE 1  
0-1 FROM R18 (WRAP WIRE AROUND COMPONENT LEAD) TO Q3 CATHODE (GND) (USE ITEM 144)

**REWORK INSTRUCTION**

ECO # 9  
COMPONENT DELETE SIDE 1  
9-1 DELETE F2 DEC P/N 12-05747-00  
COMPONENT ADD SIDE 1  
9-2 ADD F2 DEC P/N 12-10929-09

**REWORK INSTRUCTIONS**

ECO # 10  
COMPONENT DELETES SIDE 1  
10-1 DELETE C14, DEC P/N 1001610-01  
10-2 DELETE D4, D6, DEC P/N 1110491-01  
10-3 DELETE R36, DEC P/N 1300171-00  
COMPONENT ADDS SIDE 1  
10-4 ADD C14, DEC P/N 1012784-00  
10-5 ADD D4, D6, DEC P/N 1116645-03  
10-6 ADD R36, DEC P/N 1316575-00  
10-7 ADD D40, DEC P/N 1114893-00 ACROSS R36 CATHODE TO END NEAR Q7.

**REWORK INSTRUCTIONS**

ECO # 13  
COMPONENT ADD SIDE 1  
13-1 ADD C43 DEC P/N 1001610-01 FROM E2-2 TO E2-4 (GROUND)  
13-2 ADD C44 DEC P/N 1001610-01 FROM E4-2 TO E4-4 (GROUND)

**REWORK INSTRUCTIONS**

ECO # 18  
COMPONENT DELETES SIDE 1:  
18-1 DELETE R46 DEC P/N 1302545-00 ALL VARIATIONS.  
18-2 DELETE R47 DEC P/N 1305114-00 VARIATION 00. 1305145-00 VARIATION YA, YB.  
COMPONENT ADDS SIDE 1:  
18-3 ADD R46 DEC P/N 1304856-00 ALL VARIATIONS.  
18-4 ADD R47 DEC P/N 1313589-00 VARIATION 00. 1302871-00 VARIATION YA, YB.  
18-5 ADD R24 DEC P/N 1304856-00 FROM E4-3 TO VREF (FROM PLATED-THRU HOLE ADJACENT TO Q11 TO INNER LEG OF R46) ALL VARIATIONS.

**REWORK INSTRUCTIONS PER ECO # 19**

COMPONENT DELETES SIDE 1:  
19-1 DELETE C31, DEC P/N 1000060-00, ALL VARIATIONS.  
19-2 DELETE R94, DEC P/N 1304854-00, ALL VARIATIONS.  
COMPONENT ADDS SIDE 1:  
19-3 ADD C31, DEC P/N 1000023-00, ALL VARIATIONS.  
19-4 ADD R94, DEC P/N 1303044-00, ALL VARIATIONS.  
19-5 ADD C46, DEC P/N 1001610-01, USING TUBING, DEC P/N 9107256-11 ON LEADS (QTY A/R), FROM E1-3 TO E1-4, ALL VARIATIONS.  
19-6 CHANGE C44 FROM E4-4 TO E4-3.

**REWORK INSTRUCTIONS PER ECO # 20**

COMPONENT DELETES SIDE 1:  
20-1 DELETE P/N 13-01838-00 (R104)  
20-2 DELETE P/N 13-01864-00 (R28)  
20-3 DELETE P/N 13-00171-00 (R25)  
20-4 DELETE P/N 13-00433-00 (R32)  
20-5 DELETE P/N 13-12993-00 (R123)  
20-6 DELETE P/N 13-16575-00 (R36)  
COMPONENT ADDS SIDE 1:  
\*\*THESE COMPONENTS MUST BE RAISED TO 0.35" TO 0.10".  
20-7 ADD P/N 13-19470-14 (R104)  
20-8 ADD P/N 13-19471-23 (R28)  
20-9 ADD P/N 13-19255-04 (R25)  
20-10 ADD P/N 13-19470-38 (R32)  
20-11 ADD P/N 13-19255-11 (R123)  
20-12 ADD P/N 13-19471-01 (R36)

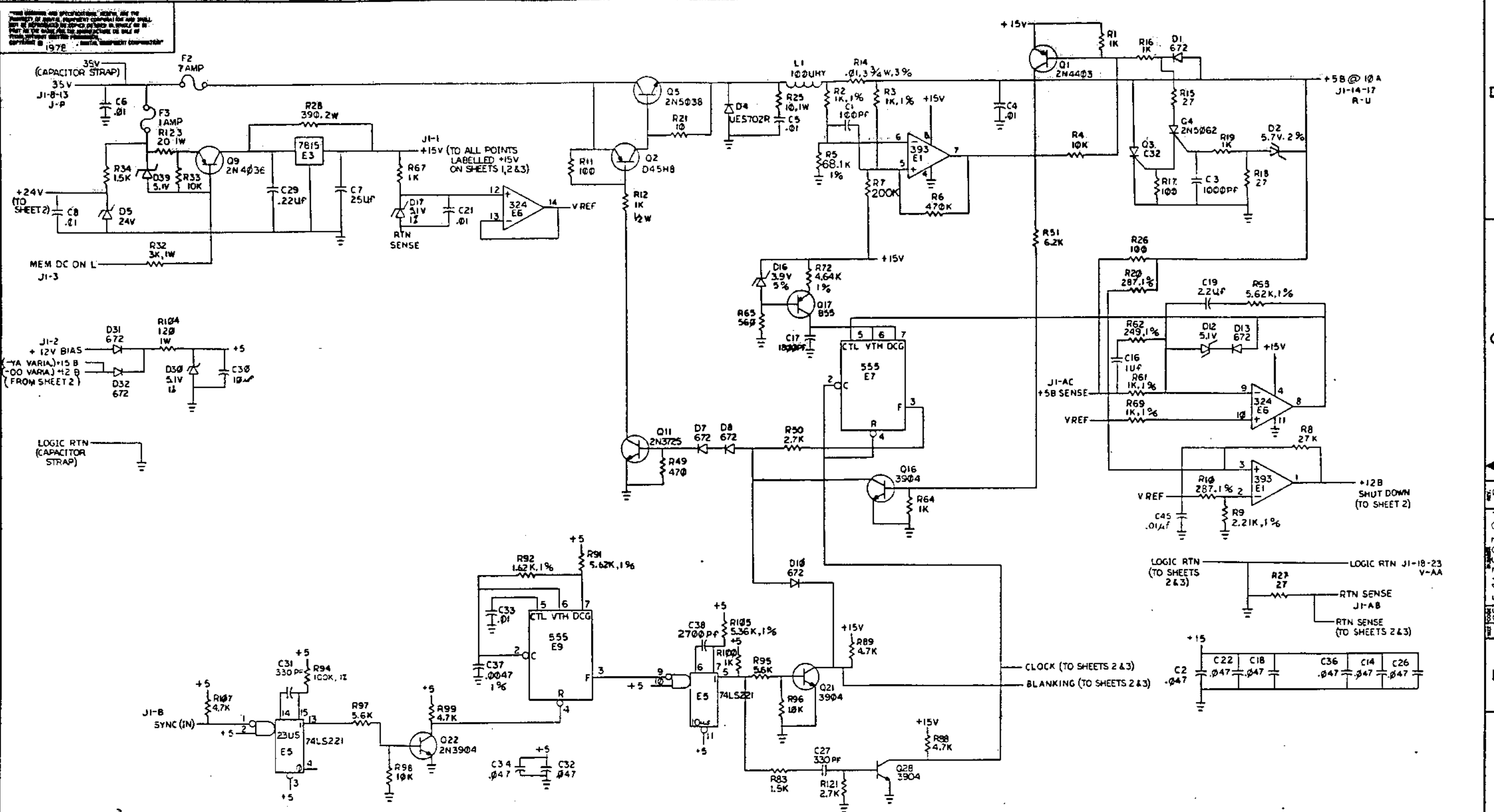
REVISION HISTORY		
DATE	NO. NUMBER	BY

TITLE  
MEMORY REGULATOR

DOCUMENT NUMBER	
NO.	REV.
DJUA	5413607-0-0
SCALE	SHEET 2 OF 2

DJUA 5413607-0-0

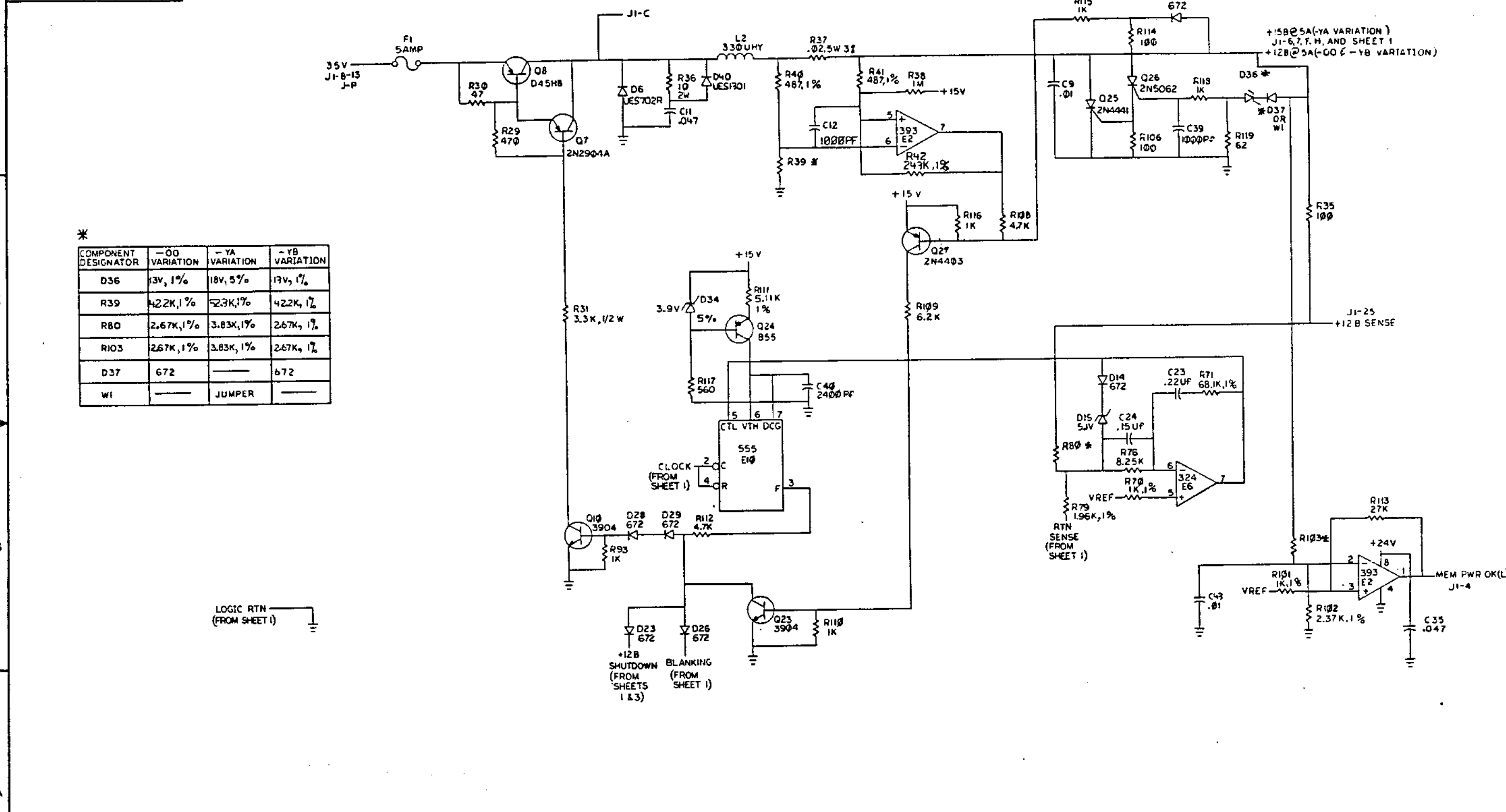




REV	DATE	BY	CHKD	APPV
1	11/16/70	WJ	WJ	WJ
2	11/16/70	WJ	WJ	WJ
3	11/16/70	WJ	WJ	WJ
4	11/16/70	WJ	WJ	WJ
5	11/16/70	WJ	WJ	WJ
6	11/16/70	WJ	WJ	WJ
7	11/16/70	WJ	WJ	WJ
8	11/16/70	WJ	WJ	WJ

DRN: <i>WJ</i>	FIRST USED ON: <i>H7110</i>	DIGITAL
CHK'D: <i>WJ</i>	TITLE: <b>MEM REG</b>	
ENG: <i>WJ</i>	SCALE: <i>1:1</i>	
PROJ. ENGR: <i>WJ</i>	SIZE CODE: <b>D</b>	NUMBER: <b>CS 5413607-0-1</b>
PROD. FA: <i>WJ</i>	REV: <b>R</b>	
NEXT HIGHER ASSY:	SHEET: <b>3</b>	OF: <b>3</b>

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\*

COMPONENT DESIGNATOR	-00 VARIATION	-YA VARIATION	-YB VARIATION
D36	13V, 1%	18V, 5%	13V, 1%
R39	4.22K, 1%	2.3K, 1%	4.22K, 1%
R80	2.67K, 1%	3.83K, 1%	2.67K, 1%
R103	2.67K, 1%	3.83K, 1%	2.67K, 1%
D37	672		672
W1		JUMPER	

LOGIC RTN (FROM SHEET 1)

+12B SHUTDOWN (FROM SHEETS 1 & 3)  
BLANKING (FROM SHEET 1)

REVISIONS		
CHK	CHANGE NO	REV.

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\* COMPONENT VARIATION TABLE

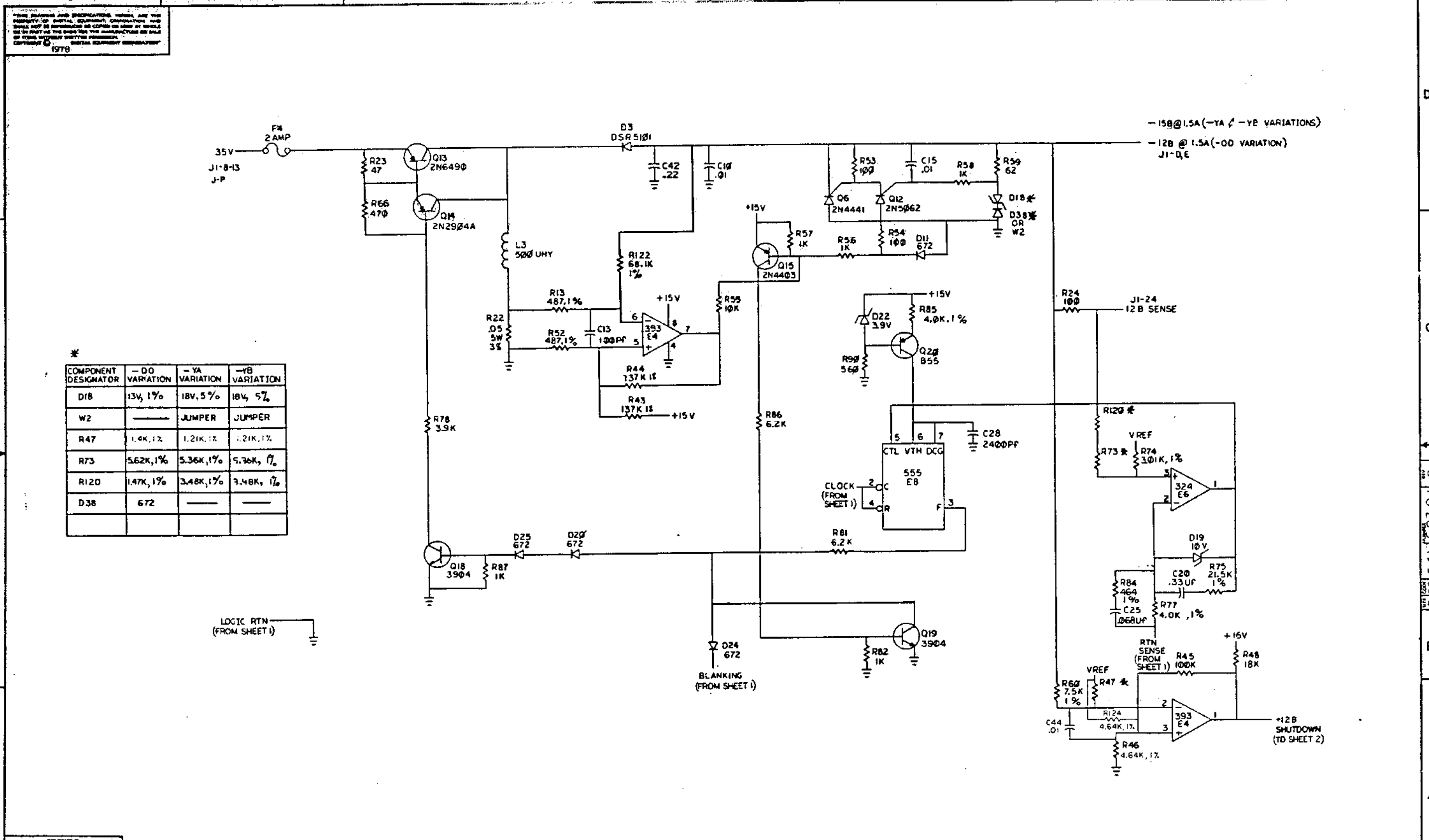
COMPONENT DESIGNATOR	-D0 VARIATION	-YA VARIATION	-YB VARIATION
D18	13V, 1%	18V, 5%	18V, 5%
W2	---	JUMPER	JUMPER
R47	1.4K, 1%	1.21K, 1%	1.21K, 1%
R73	5.62K, 1%	5.36K, 1%	5.36K, 1%
R120	1.47K, 1%	3.48K, 1%	3.48K, 1%
D38	672	---	---

LOGIC RTN (FROM SHEET 1)

BLANKING (FROM SHEET 1)

-15B @ 1.5A (-YA & -YB VARIATIONS)  
 -12B @ 1.5A (-D0 VARIATION)  
 J1-D,E

+12B SHUTDOWN (TO SHEET 2)



REVISIONS

CHK	CHANGE NO.	REV.

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA	YB	
						R2	R2	R2	
1	1	D-MD-5013606-0-0	50-13606-00		DRILL & ETCH BD	1	1	1	
2	2		10-04813-00		10 MFD 20V +/-10% SOL	1	1	1	C30
3	3		10-00042-00		1000 PFD 100V +/- 5% 200PP	3	3	3	C3,C12,C39
4	4		10-00052-00		0.068MFD 100V +/-10% MYLAR	1	1	1	C25
5	5	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	
6	6		10-00075-00		25 MFD 25V +75/-10% ALU	1	1	1	C7
7	7	#SEE NOTE #160	10-01610-01		0.010MFD 50V +80/-20% Z5U	12	12	12	C4-C6,C8-C10,C15,C21,C33, CONT C43-C45
8	8		10-01776-00		1.0 MFD 35V +/-10% SOL	1	1	1	C16
9	9		10-01636-00		2400 PFD 100V +/- 5% 200PP	2	2	2	C28,C40
10	10		10-14170-00		2700 PFD 100V +/- 1% 70PP	1	1	1	C38
11	11		10-02627-00		2.2 MFD 20V +/-10% SOL	1	1	1	C19
12	12		10-05328-00		0.33MFD 20V +/-10% SOL	1	1	1	C20
13	13		10-09312-00		4700 PFD 100V +/- 1% MYLAR	1	1	1	C37
14	14		10-10274-01		0.22 MFD 50V +80/-20% Z5U C	1	1	1	C29
15	15		10-11740-02		1800 PFD 50V +/-10% X7R C	1	1	1	C17
16	16		10-11895-00		0.15MFD 35V +/-10% SOL	1	1	1	C24
17	17		10-12784-00		0.047MFD 50V +80/-20% Z5U C	10	10	10	C2,C11,C14,C18,C22,C26,C32, CONT C34-C36
18	18		11-00122-00		VZ= 3.9 5% 400 MW 1N748A	3	3	3	D16,D22,D34
19	19		11-05275-00		PIV= 60 IO=300 MA -15NS	19	-	-	D1,D7,D8,D10,D11,D13,D14,D20, CONT D23-D26,D28,D29,D31,D32,D35, CONT D37,D38
			CONT			-	17	-	D1,D7,D8,D10,D11,D13,D14,D20, CONT D23-D26,D28,D29,D31,D32,D35
			CONT			-	-	18	D1,D7,D8,D10,D11,D13,D14,D20, CONT D23-D26,D28,D29,D31,D32,D35,D37
20	20		11-00125-00		VZ= 10.0 5% 400 MW 1N758A	1	1	1	D19
21	21		11-05871-00		VZ= 5.15 1% 250 MW	3	3	3	D17,D30,D39
22	22		11-18411-00		VZ= 13.0 1% 500 MW 1N5243	2	-	-	D18,D36
			CONT			-	-	1	D36
23	23		11-16645-03		RECT,ULTRA FAST PIV= 100 IO=25.0	2	2	2	D4,D6

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A	DRN:	DIGITAL				
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE:	PARTS LIST				
---	TW005	H	{A}	00, YA, YB	{M}	06-AUG-80	CHK'D:	MEMORY REG			
MS	5413607-TW006	J	{B}		{N}	06-AUG-80	J.FERGUSON				
KK	5413607-TW009	K	{C}		{P}		DES.ENG:				
CS	5413607-TW010	L	{D}		{Q}	06-AUG-80	B.WOLF				
CS	5413607-TW012	M	{E}		{R}		DATE:	DOCUMENT NUMBER			
CS	5413607-TW013	N	{F}		{S}		RESP.ENG.:	SIZE	CODE	NUMBER	REV
KK	5413607-TW014	P	{H}		{T}	06-AUG-80	B.WOLF	K	PL	5413607-0-DBP	U
CS	5413607-TW015	R	{J}		{V}		DATE:	RELEASE DATE: 14-AUG-86			
BW	5413607-TW018	S	{K}		{W}		MFG.ENG.:	RELEASE STATUS: RELEASED			
RW	5413607-TW019	T	{L}		{Y}	06-AUG-80	P.WAITKUS				
JA	5413607-LK020	U					DATE:				
			BASIC PART NUMBER:		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			5413607		D-UA-5413607-0-0	B-DD-5413607-0-0		Z0403U.PLS		2	

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER YA	VAR	REV	REFERENCE DESIGNATORS
						00 R2	R2	Y8 R2	Y8 R2	
24	24		11-10713-00		VZ= 5.1 2% 400 MW 1N751	2	2	2		D12,D15
25	25		11-10856-00		VZ= 24.0 5% 400 MW 1N970B	1	1	1		D5
26	26		11-11205-00		VZ= 5.7 2% 400 MW	1	1	1		D2
27	27		11-14602-00		RECT,ULTRA FAST PIV= 100 IO= 4.0	1	1	1		D3
28	28		11-10968-00		SCR PIV= 100 IO= .80A 2N5062	3	3	3		Q4,Q12,Q26
29	29		10-10978-40		0.22 MFD 50V +/-10% X7R C	2	2	2		C23,C42
30	30		12-10929-02		FUSE PICO 1.0 A 125V AXIAL LEA	1	1	1		F3
31	31		12-05747-00		FUSE PICO 5.0 A 125V AXIAL LEA	1	1	1		F1
32	32		12-16112-03		PCB,HEADER 50POS(2X25) 100CC 90D	1	1	1		J1
33	33		13-05127-00		4.0 K .25 W 1.0 % RN55D-F10	2	2	2		R77,R85
34	34		13-04856-00		4.64 K .25 W 1.0 % RN55D-F10	3	3	3		R46,R72,R124
35	35		13-04854-00		5.11 K .25 W 1.0 % RN55D-F10	1	1	1		R111
36	36		13-00391-00		1.50 K .25 W 5.0 % CF	2	2	2		R34,R83
37	37		13-00316-00		470.0 .25 W 5.0 % CF	3	3	3		R29,R49,R66
38	38		13-00447-00		4.70 K .25 W 5.0 % CF	6	6	6		R88,R89,R99,R107,R108,R112
39	39		13-00229-00		100.0 .25 W 5.0 % CF	9	9	9		R11,R17,R24,R26,R35,R53,R54, CONT R106,R114
40	40		13-01317-00		10.0 .25 W 5.0 % CF	1	1	1		R21
41	41		13-00364-00		1.0 K .50 W 5.0 % CF	1	1	1		R12
42	42		13-19255-04		10.0 1.0 W 5.0 % M.OXIDE	1	1	1		R25
43	43		13-13014-00		.01 3.75 W 3.0 % WW	1	1	1		R14
44	44		13-19471-23		390.0 2.0 W 5.0 % M.OXIDE	1	1	1		R28
45	45		13-00479-00		10.0 K .25 W 5.0 % CF	5	5	5		R4,R33,R55,R96,R98
46	46		13-09595-00		1.0 M .25 W 5.0 % CF	1	1	1		R38
47	47		13-03114-00		1.0 K .25 W 1.0 % RN55D-F10	6	6	6		R2,R3,R61,R69,R70,R101
48	48	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-		
49	49		13-00365-00		1.0 K .25 W 5.0 % CF	16	16	16		R1,R16,R19,R56-R58,R64,R67,R82, CONT R87,R93,R100,R110,R115,R116, CONT R118
50	50		13-01522-00		27.0 .25 W 5.0 % CF	3	3	3		R15,R18,R27
51	51		13-05114-00		3.48 K .25 W 1.0 % RN55D-F10	-	1	1		R120
52	52		13-01890-00		560.0 .25 W 5.0 % CF	3	3	3		R65,R90,R117
53	53		13-00426-00		2.70 K .25 W 5.0 % CF	2	2	2		R50,R121
54	54		12-11751-00		FUSE PICO 2.0 A 125V AXIAL LEA	1	1	1		F4
55	55		13-05128-00		5.62 K .25 W 1.0 % RN55D-F10	3	-	-		R68,R73,R91
					CONT	-	2	-		R68,R91
						-	-	1		R68
56	56		13-03044-00		100.0 K .25 W 1.0 % RN55D-F10	2	2	2		R45,R94
57	57		13-09787-00		249.0 .25 W 1.0 % RN55E-F 2	1	1	1		R62
58	58		13-10876-03		.05 5.0 W 3.0 % WW	1	1	1		R22
59	59		13-05124-00		287.0 .25 W 1.0 % RN55D-F10	2	2	2		R10,R20
60	60		13-10631-00		2.21 K .25 W 1.0 % RN55D-F10	1	1	1		R9
61	61		13-13341-00		5.36 K .25 W 1.0 % RN55D-F10	1	-	-		R105
					CONT	-	2	2		R73,R105
62	62		13-04862-00		1.62 K .25 W 1.0 % RN55D-F10	1	1	1		R92
63	63		13-00202-00		47.0 .25 W 5.0 % CF	2	2	2		R23,R30
64	64		90-06801-00		SPACER,CLEAR HOLE HEX ALUM 6	1	1	1		
65	65		13-11845-00		487.0 .25 W 1.0 % RN55D-F10	4	4	4		R13,R40,R41,R52
66	66		13-15436-00		52.30 K .25 W 1.0 % RN55D-F10	-	1	-		R39
67	67		13-10876-00		.02 5.0 W 3.0 % WW	1	1	1		R37

D	I	G	I	T	A	L	TITLE	SECTION A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY REG				K	PL	5413607-0-DBP	U

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00	YA	YB	
						R2	R2	R2	
68	68		13-04843-00		243.0 K .25 W 1.0 % RN55D-F10	1	1	1	R42
69	69		90-06026-01		SCREW,MACH PAN PHIL 6-	1	1	1	
70	70		13-00440-00		3.30 K .50 W 5.0 % CF	1	1	1	R31
71	71		13-12929-00		62.0 .25 W 5.0 % CF	2	2	2	R59,R119
72	72		13-05252-00		68.10 K .25 W 1.0 % RN55D-F10	3	3	3	R5,R71,R122
73	73		13-05325-00		8.25 K .25 W 1.0 % RN55D-F10	1	1	1	R76
74	74		90-06653-00		WASHER,FLAT STEEL	1	1	1	
75	75	#SEE NOTE #157	91-07560-03		WIRE,BUSS 18AWG TIN BARE	A/R	A/R	A/R	
76	76		13-05346-00		27.0 K .25 W 5.0 % CF	2	2	2	R8,R113
77	77		13-10634-00		2.67 K .25 W 1.0 % RN55D-F10	2	-	2	R80,R103
78	78		13-10632-00		2.37 K .25 W 1.0 % RN55D-F10	1	1	1	R102
79	79		13-01874-00		5.60 K .25 W 5.0 % CF	2	2	2	R95,R97
80	80		13-00444-00		3.90 K .25 W 5.0 % CF	1	1	1	R78
81	81	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	
82	82		13-03155-00		21.50 K .25 W 1.0 % RN55D-F10	1	1	1	R75
83	83		13-14041-00		3.01 K .25 W 1.0 % RN55D-F10	1	1	1	R74
84	84		13-12931-00		6.20 K .25 W 5.0 % CF	4	4	4	R51,R81,R86,R109
85	85		10-00016-00		100 PFD 100V +/- 5% 200PP	2	2	2	C1,C13
86	86		13-04833-00		1.96 K .25 W 1.0 % RN55D-F10	1	1	1	R79
87	87		13-05322-00		7.50 K .25 W 1.0 % RN55D-F10	1	1	1	R60
88	88	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	
89	89		13-19470-38		3.0 K 1.0 W 5.0 % M.OXIDE	1	1	1	R32
90	90		13-02398-00		470.0 K .25 W 5.0 % CF	1	1	1	R6
91	91		10-00023-00		330 PFD 100V +/- 5% 200PP	2	2	2	C27,C31
92	92		13-02465-00		18.0 K .25 W 5.0 % CF	1	1	1	R48
93	93		13-03047-00		464.0 .25 W 1.0 % RN55D-F10	1	1	1	R84
94	94		13-05422-00		137.0 K .25 W 1.0 % RN55D-F10	2	2	2	R43,R44
95	95		13-19470-14		120.0 1.0 W 5.0 % M.OXIDE	1	1	1	R104
96	96	#SEE NOTE #159	91-07370-00		WIRE, 14AWG19/.0147IPVC 150V	A/R	A/R	A/R	
97	97		90-07928-00		TERM,RING #10STUD CRIMP 14-1	2	2	2	
98	98	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	
99	99		90-07201-00		PAD,MOUNTING,COMPONENT	4	4	4	
100	100		90-08268-00		COMPOUND, THERMAL JOINT	A/R	A/R	A/R	
101	101		15-10928-00		SCR PIV= 100 IO=25.00A	-	1	-	
			CONT			1	-	1	Q3
102	102		15-05867-00		SCR PIV= 50 IO= 8.00A 2N4441	-	2	-	
			CONT			2	-	2	Q6,Q25
103	103		13-05108-00		1.47 K .25 W 1.0 % RN55D-F10	1	-	-	R120
104	104		15-10969-00		2N 5038 NPN 140WC SI 90 50 Y	-	1	-	
			CONT			1	-	1	Q5
105	105		15-10708-00		D 45H8 PNP 50WT SI 60 60 Y	-	2	-	
			CONT			2	-	2	Q2,Q8
106	106		15-10959-00		2N 3725 NPN 3.5WC SI 50 60 P	-	1	-	
			CONT			1	-	1	Q11
107	107		15-10706-01		B 55 PNP 500MW SI 60 50	-	3	-	
			CONT			3	-	3	Q17,Q20,Q24
108	108		15-13490-00		2N 4403 PNP 350MW SI-40 30	-	3	-	
			CONT			3	-	3	Q1,Q15,Q27
109	109		15-09524-00		2N 3904 NPN 310MW SI 40 40 M	-	8	-	
			CONT			8	-	8	Q10,Q16,Q18,Q19,Q21-Q23,Q28

D	I	G	I	T	A	L	TITLE	SECTION A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY REG				K	PL	5413607-0-DBP	U

LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY	PER	VAR	REV	REFERENCE DESIGNATORS	
						00	YA	YB			
						R2	R2	R2			
110	110		15-12652-00		2N 6490 PNP 50W SI 60 40	-	1	-	-	Q13	
			CONT			1	-	1			
111	111		15-01913-00		2N 2904A PNP 500MW SI 60 40 Y	-	2	-	-	Q7,Q14	
			CONT			2	-	2			
112	112		19-14473-02		7815A VOLT REG.FIX +15V	-	1	-	-	E3	
			CONT			1	-	1			
113	113		19-14156-00	LM	393 VOLT.COMPARATOR DUAL	-	3	-	-	E1,E2,E4	
			CONT			3	-	3			
114	114		19-12107-00		324 OP AMP,QUAD	-	1	-	-	E6	
			CONT			1	-	1			
115	115		19-11944-00		555CN TIMER,FUNCT.BLOCK	3	3	3		E7,E8,E10	
116	116		19-12858-00		LS221 ONE SHOT-DUAL,SCHMIT	-	1	-	-		
			CONT			1	-	1		E5	
117	117		16-16212-00		80.0 UH 12.5ADC 30KHZ	-	1	-	-	L1	
			CONT			1	-	1			
118	118		16-16210-00		250.0 UH • 6.5A DC,600.0 UH •	-	1	-	-	L2	
			CONT			1	-	1			
119	119		16-16211-00		350.0 UH 3A	-	1	-	-	L3	
			CONT			1	-	1			
120	120		74-22046-00		HEAT SINK,SINGLE	3	3	3			
121	121		74-22047-01		HEAT SINK DOUBLE	2	2	2			
122	122		12-13426-03		HEAT SINK,TO-3 1.880X01.4	1	1	1			
123	123		12-14789-00		INSERT,THREAD	2	2	2			
124	124		90-09769-00		WASHER,RECTNGLR STEEL	3	3	3			
125	125		90-10128-00		SCREW,THD RL,PAN PHIL F/METAL	7	7	7			
126	126		90-06024-01		SCREW,MACH PAN PHIL 6-	2	2	2			
127	127		90-06011-01		SCREW,MACH PAN PHIL 4-	3	3	3			
128	128		90-06688-00		WASHER,HELICAL SPLIT SST	3	3	3			
129	129		90-06556-00		NUT,HEX 4-40X .264AF SS/N	3	3	3			
130	130		90-06041-01		SCREW,MACH PAN PHIL 8-	2	2	2			
131	131		90-06802-00		SPACER,CLEAR HOLE HEX ALUM 8	2	2	2			
132	132		90-06656-00		WASHER,FLAT STEEL	2	2	2			
133	133		90-07801-00		WASHER,HELICAL SPLIT SST	3	3	3			
134	134		90-06690-00		WASHER,HELICAL SPLIT SST	2	2	2			
135	135		90-06660-00		WASHER,FLAT SST	2	2	2			
136	136		90-09005-00		NUT,HEX 10-32X .246AF SS/N	2	2	2			
137	137		90-07906-00		WASHER,HELICAL SPLIT STEEL	2	2	2		W1,W2	
138	138		90-09185-00		JUMPER,WIRE,INSULATED, BLACK B	-	2	-	-	W2	
			CONT			-	-	1			
139	139	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-			
140	140		15-09700-00		2N 4036 PNP 7WC SI 80100 M	1	-	1		Q9	
			CONT			-	1	-			
141	141	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-			
142	142	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-			
143	143	#BLANK			*** THIS ITEM IS NOT USED ***	-	-	-			
144	144	#SEE NOTE #158	91-07688-55		WIRE(WRAP) 24AWG KYNAR UL13	A/R	A/R	A/R		D18,D36	
145	145		11-10766-00		VZ= 18.0 5% 500M2 1N5248B	D	-	2		D18	
			CONT			-	-	1		R80,R103	
146	146		13-09413-00		3.83 K .25 W 1.0 % RN55D-F10	-	2	-		R47	
147	147		13-02871-00		1.21 K .25 W 1.0 % RN55D-F10	-	1	1			

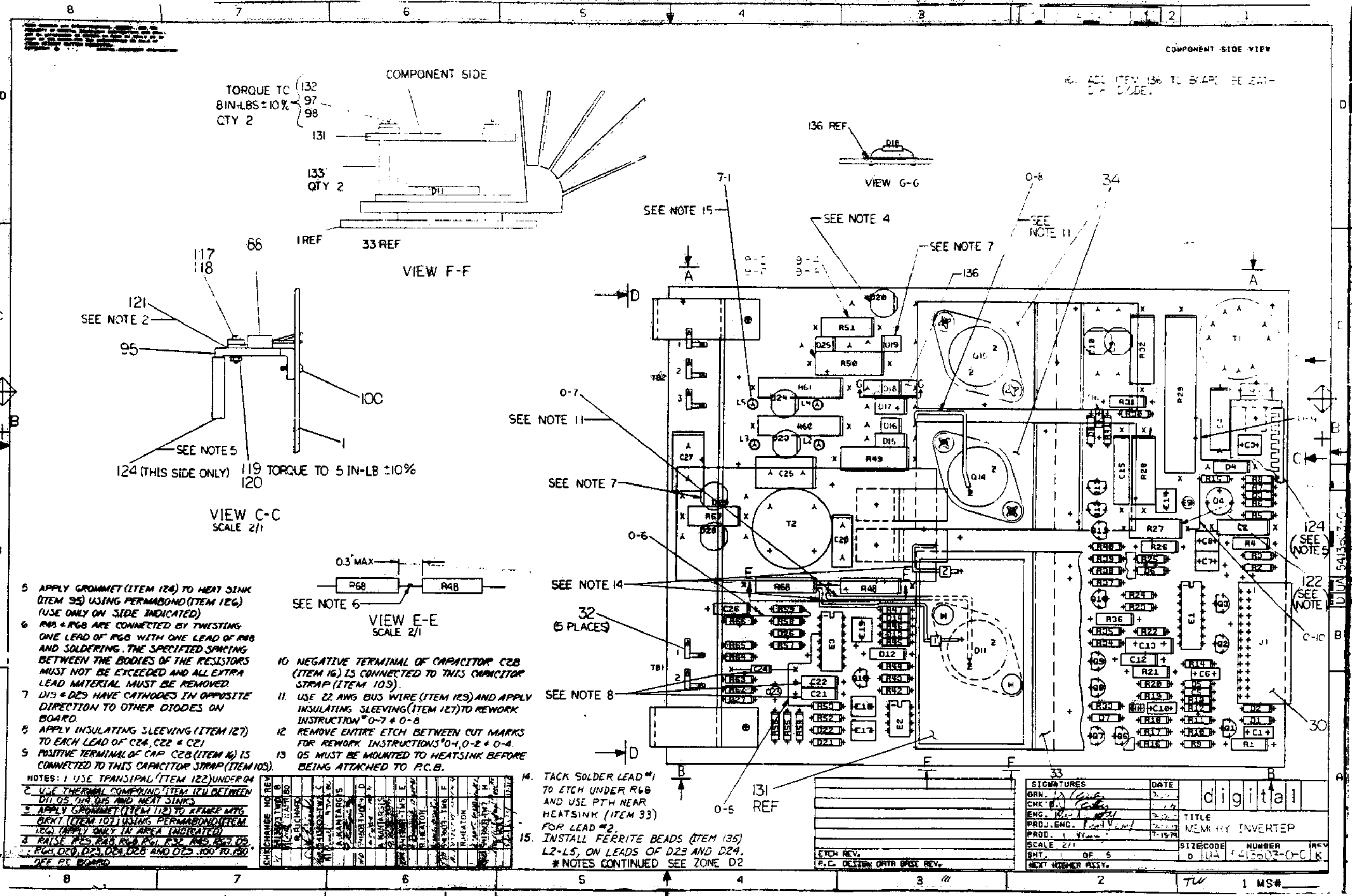
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							MEMORY REG			K	PL	5413607-0-DBP	U

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV			REFERENCE DESIGNATORS
						00 R2	YA R2	YB R2	
148	148		13-19255-11	20.0	1.0 W 5.0 % M.OXIDE	-	1	-	
			CONT			1	-	1	R123
149	149		13-14923-00	42.20 K	.25 W 1.0 % RN55D-F10	1	-	1	R39
150	150		12-10929-09	FUSE PICO	7.0 A 125V AXIAL LEA	1	1	1	F2
151	151		13-19471-01	10.0	2.0 W 5.0 % M.OXIDE	1	1	1	R36
152	152		11-14893-00	RECT,ULTRA FAST PIV=	50 IO= 6.0	1	1	1	D40
153	153		19-11944-01	555-1	TIMER FUNCT.BLOCK,5	1	1	1	E9
154	154		13-05336-00	200.0 K	.25 W 1.0 % RN55D-F10	1	1	1	R7
155	155		13-13589-00	1.40 K	.25 W 1.0 % RN55D-F10	1	-	-	R47
156	156		91-07256-11	TUBING,TEFLON	.027ID	A/R	A/R	A/R	

- 1 GEN: ITEM #75: .17' IS USED.
- 2 GEN: ITEM #144: .19' IS USED.
- 3 GEN: ITEM #96: .56' IS USED.
- 4 GEN: ITEM #7: FOR C43, C44 & C45, DEC P/N 1001610-00 MAY BE USED IN PLACE OF DEC P/N 1001610-01.

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY REG			K	PL	5413607-0-DBP	U

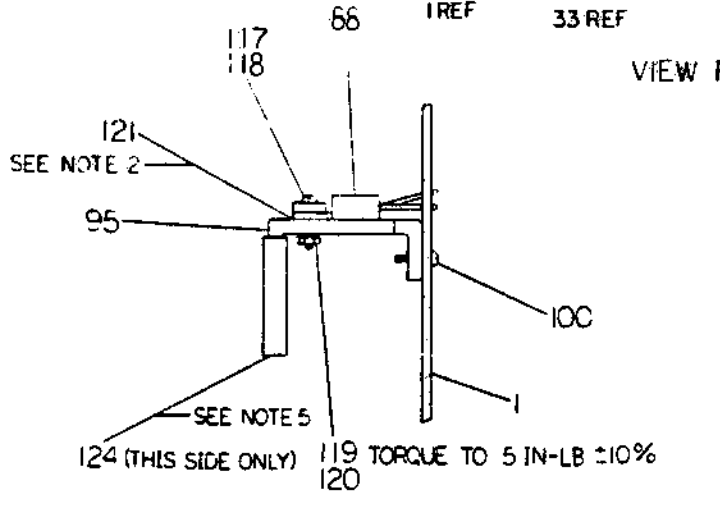
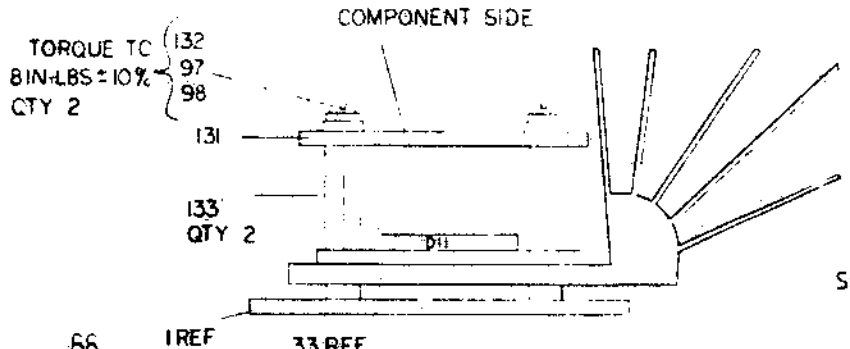




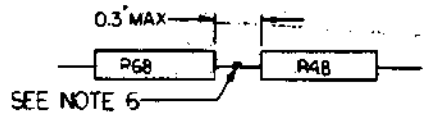
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 DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.

COMPONENT SIDE VIEW

REF. ADD ITEM 136 TO BOARD RE 201-  
 07 CODE.



VIEW C-C  
 SCALE 2/1



VIEW E-E  
 SCALE 2/1

- 5 APPLY GROMMET (ITEM 124) TO HEAT SINK (ITEM 95) USING PERMABOND (ITEM 126) (USE ONLY ON SIDE INDICATED)
- 6 R48 & R68 ARE CONNECTED BY TWISTING ONE LEAD OF R68 WITH ONE LEAD OF R48 AND SOLDERING. THE SPECIFIED SPACING BETWEEN THE BODIES OF THE RESISTORS MUST NOT BE EXCEEDED AND ALL EXTRA LEAD MATERIAL MUST BE REMOVED
- 7 D15 & D29 HAVE CATHODES IN OPPOSITE DIRECTION TO OTHER DIODES ON BOARD
- 8 APPLY INSULATING SLEEVING (ITEM 127) TO EACH LEAD OF C24, C22 & C21
- 9 POSITIVE TERMINAL OF CAP C28 (ITEM 16) IS CONNECTED TO THIS CAPACITOR STRAP (ITEM 10S)

- 10 NEGATIVE TERMINAL OF CAPACITOR C28 (ITEM 16) IS CONNECTED TO THIS CAPACITOR STRAP (ITEM 10S)
- 11 USE 22 AWG BUS WIRE (ITEM 129) AND APPLY INSULATING SLEEVING (ITEM 127) TO REWORK INSTRUCTION \*0-7 & 0-8
- 12 REMOVE ENTIRE ETCH BETWEEN CUT MARKS FOR REWORK INSTRUCTIONS \*0-4, 0-2 & 0-4
- 13 Q5 MUST BE MOUNTED TO HEATSINK BEFORE BEING ATTACHED TO P.C.B.

- 14 TACK SOLDER LEAD #1 TO ETCH UNDER R6B AND USE PTH NEAR HEATSINK (ITEM 33) FOR LEAD #2
  - 15 INSTALL FERRITE BEADS (ITEM 135) L2-L5, ON LEADS OF D23 AND D24.
- \* NOTES CONTINUED SEE ZONE D2

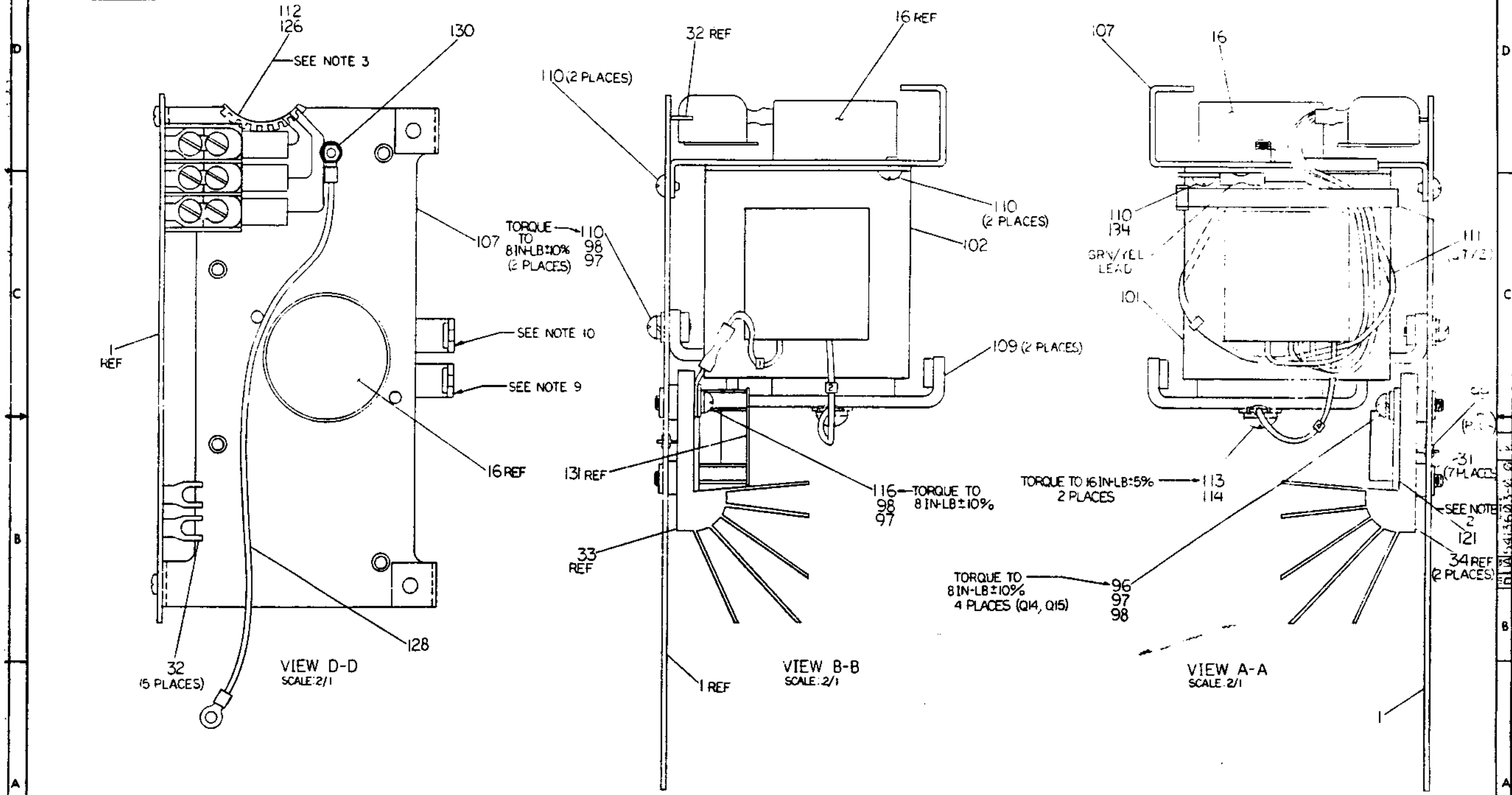
ETCH REV.	DATE	BY
P.C. DESIGN	07/19/70	ORTR BRSE REV.

SIGNATURES		DATE	
DRN.	<i>[Signature]</i>		
CHK.	<i>[Signature]</i>		
ENG.	<i>[Signature]</i>		
PROD. ENG.	<i>[Signature]</i>		
PROD.	<i>[Signature]</i>		
SCALE 2/1		SIZE CODE NUMBER	
BHT.		0 13 45503-0-C	
NEXT HIGHER ASSY.			

digital  
 TITLE  
 MEM WY INVERTER

CHANGE NO	REV	DATE	BY	DESCRIPTION
1	1	07/19/70	ORTR	INITIAL REV
2	2	07/19/70	ORTR	REWORK INSTRUCTIONS
3	3	07/19/70	ORTR	REWORK INSTRUCTIONS
4	4	07/19/70	ORTR	REWORK INSTRUCTIONS
5	5	07/19/70	ORTR	REWORK INSTRUCTIONS
6	6	07/19/70	ORTR	REWORK INSTRUCTIONS
7	7	07/19/70	ORTR	REWORK INSTRUCTIONS
8	8	07/19/70	ORTR	REWORK INSTRUCTIONS
9	9	07/19/70	ORTR	REWORK INSTRUCTIONS
10	10	07/19/70	ORTR	REWORK INSTRUCTIONS

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
MEMORY INVERTER	DJA	5413603-0-0	r
SCALE 2/1	SHEET 2 OF 5	DIST.	

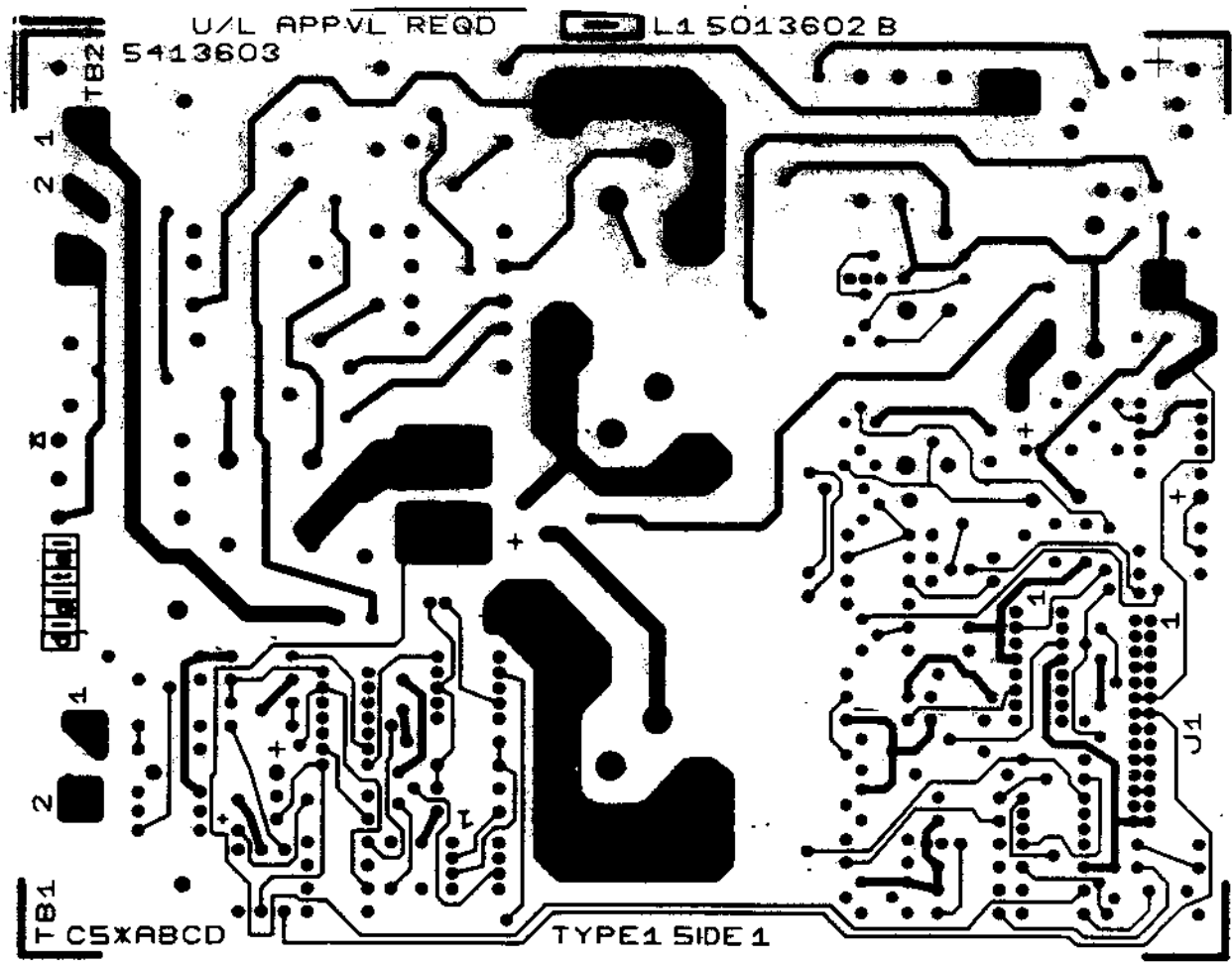
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DJA 5413603-0-0 2

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U/L APPVL REQD L1 5013602 B  
5413603

TB1 CSXABCD TYPE 1 SIDE 1



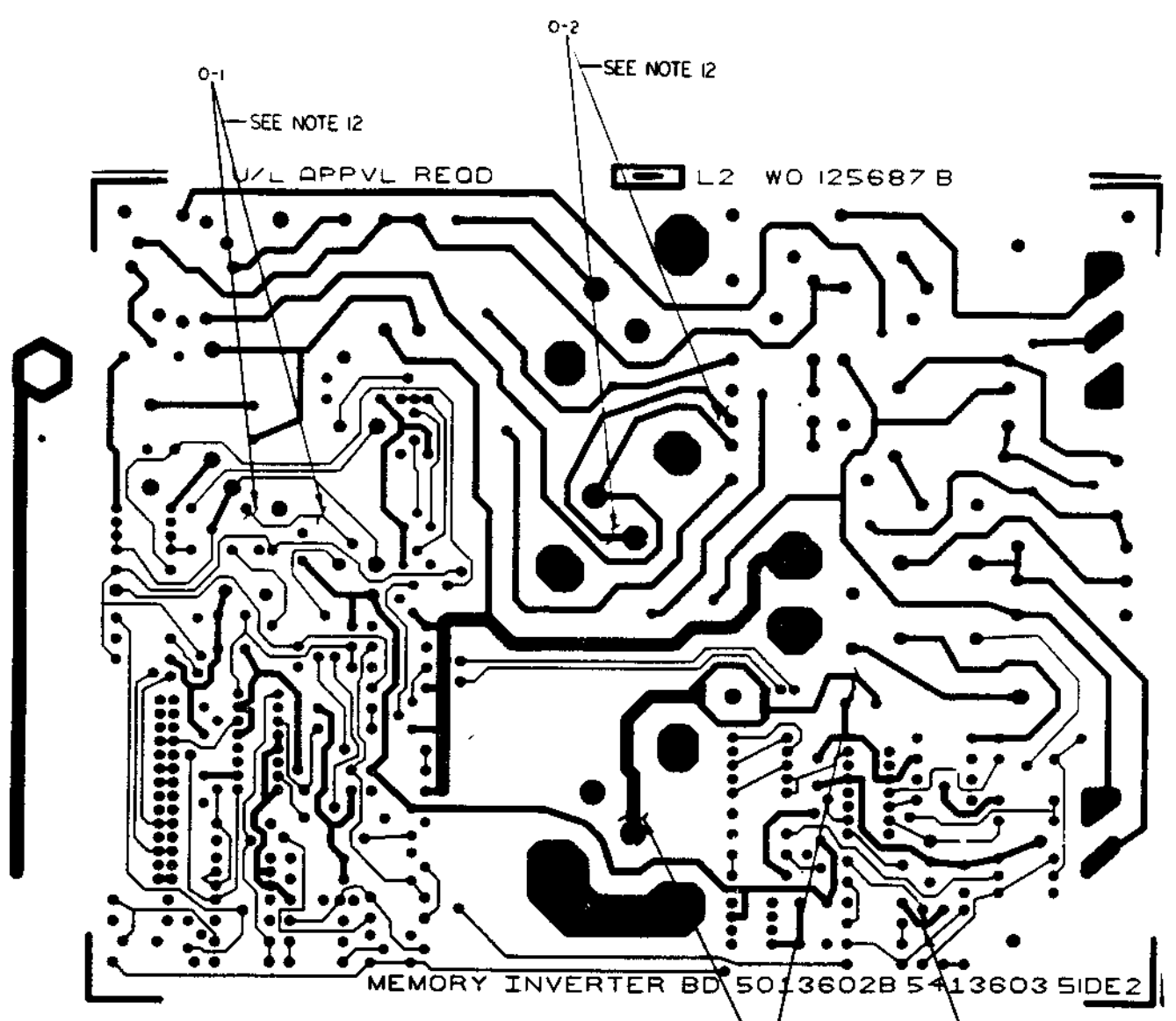
DJA 5413603-0-C K

REVISIONS	
NO.	DESCRIPTION

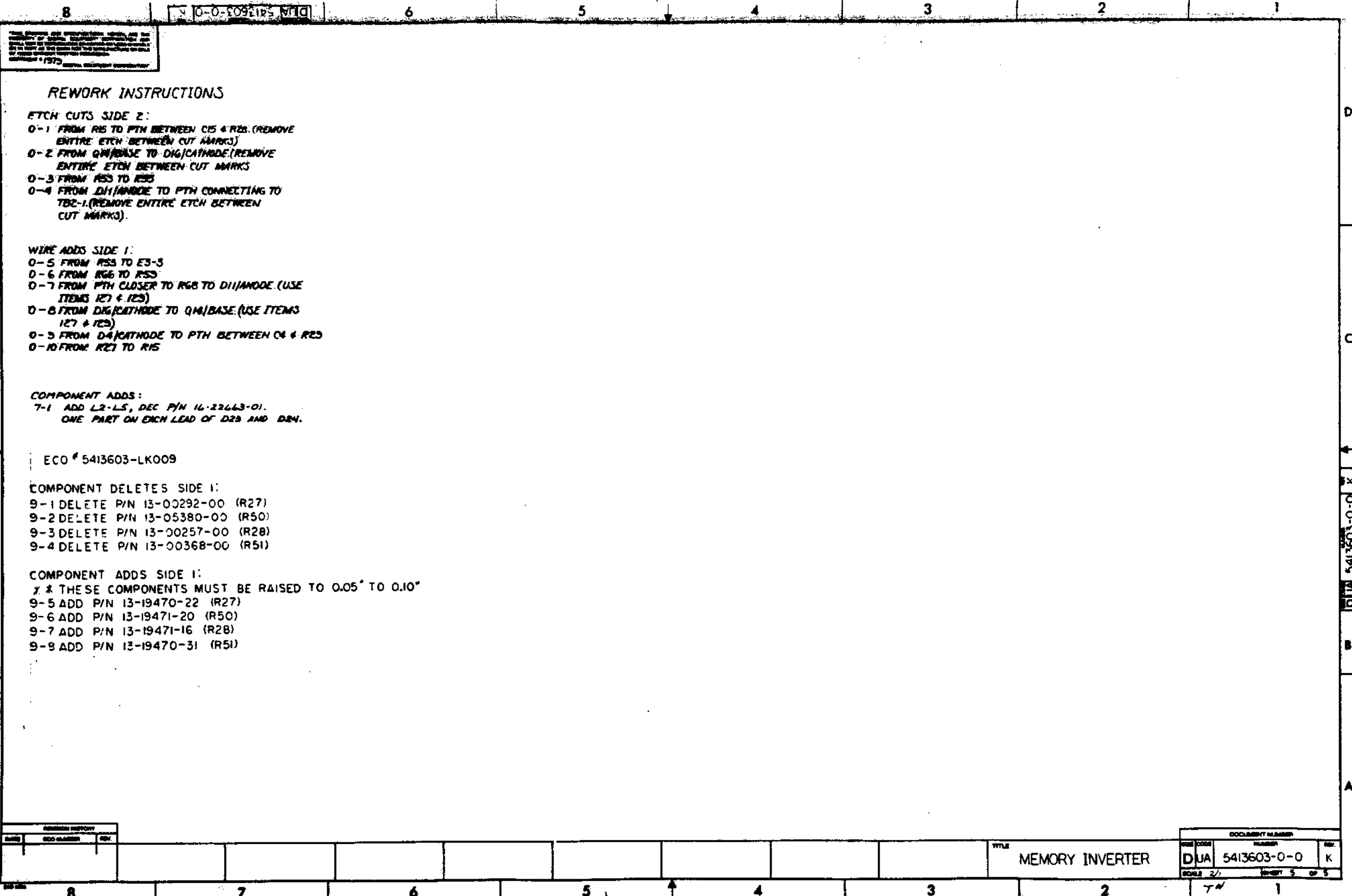
8 7 6 5 4 3 2 1

TITLE	MEMORY INVERTER	SIZE/COOD	DJA	NUMBER	5413603-0-0	REV	K
SCALE	2/1	SHEET	3	OF	5	DIS	

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DUA 5413603-0-0 K



0-0-00911RS N10

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### REWORK INSTRUCTIONS

**ETCH CUTS SIDE 2:**  
 0-1 FROM R15 TO PTH BETWEEN C15 & R25. (REMOVE ENTIRE ETCH BETWEEN CUT MARKS)  
 0-2 FROM Q1/BASE TO D1G/CATHODE. (REMOVE ENTIRE ETCH BETWEEN CUT MARKS)  
 0-3 FROM R55 TO R55  
 0-4 FROM D11/ANODE TO PTH CONNECTING TO TB2-1. (REMOVE ENTIRE ETCH BETWEEN CUT MARKS).

**WIRE ADDS SIDE 1:**  
 0-5 FROM R55 TO E3-3  
 0-6 FROM R66 TO R55  
 0-7 FROM PTH CLOSER TO R66 TO D11/ANODE. (USE ITEMS 127 & 129)  
 0-8 FROM D1G/CATHODE TO Q1/BASE. (USE ITEMS 127 & 129)  
 0-9 FROM D4/CATHODE TO PTH BETWEEN C4 & R25  
 0-10 FROM R27 TO R15

**COMPONENT ADDS:**  
 7-1 ADD L2-LS, DEC P/N 16-22443-01.  
 ONE PART ON EACH LEAD OF D23 AND D24.

ECO # 5413603-LK009

**COMPONENT DELETES SIDE 1:**  
 9-1 DELETE P/N 13-00292-00 (R27)  
 9-2 DELETE P/N 13-05380-00 (R50)  
 9-3 DELETE P/N 13-00257-00 (R28)  
 9-4 DELETE P/N 13-00368-00 (R51)

**COMPONENT ADDS SIDE 1:**  
 \* THESE COMPONENTS MUST BE RAISED TO 0.05" TO 0.10"  
 9-5 ADD P/N 13-19470-22 (R27)  
 9-6 ADD P/N 13-19471-20 (R50)  
 9-7 ADD P/N 13-19471-16 (R28)  
 9-8 ADD P/N 13-19470-31 (R51)

DATE	ECO NUMBER	REV.

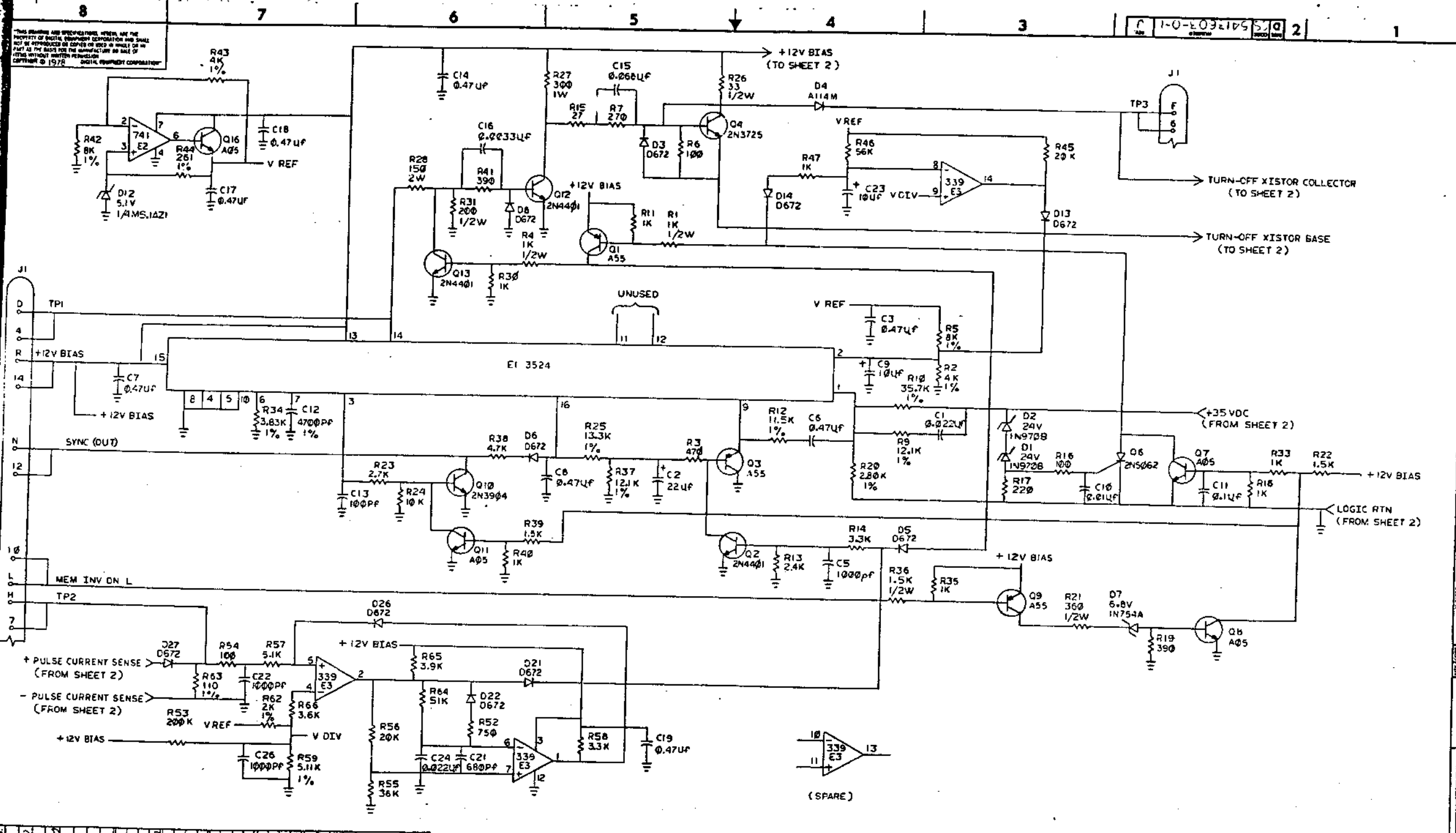
MEMOIR SUPPORT

TITLE  
 MEMORY INVERTER

DOCUMENT NUMBER		
ORG	CODE	NUMBER
DJA		5413603-0-0
	SCALE	SHEET 5 OF 5

DJA 5413603-0-0 K

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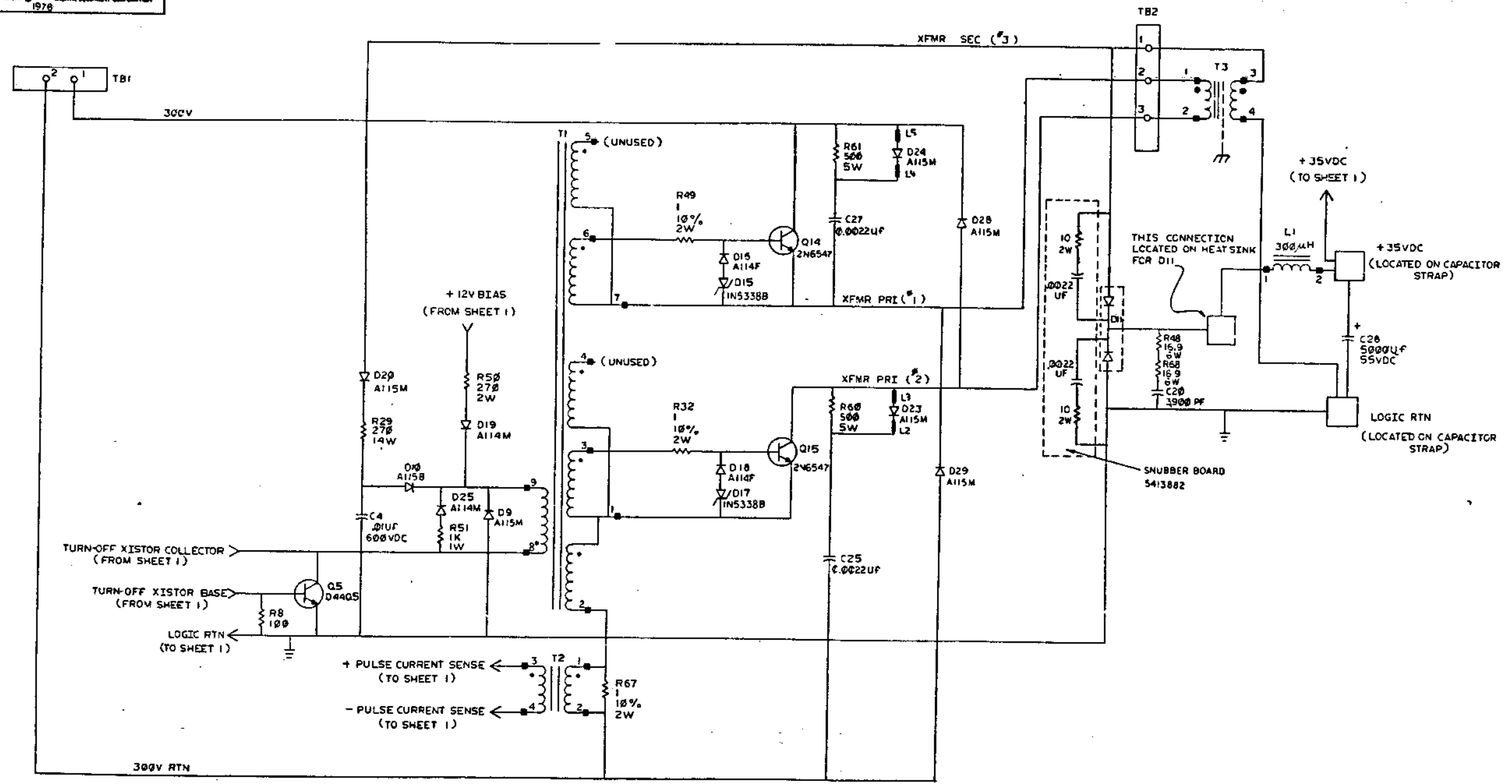
REV.	BY	DATE	DESCRIPTION
1	W. J. WOLF	12-15-72	INITIAL DESIGN
2	W. J. WOLF	1-10-73	REVISED FOR MANUFACTURE
3	W. J. WOLF	2-15-73	REVISED FOR MANUFACTURE
4	W. J. WOLF	3-15-73	REVISED FOR MANUFACTURE
5	W. J. WOLF	4-15-73	REVISED FOR MANUFACTURE
6	W. J. WOLF	5-15-73	REVISED FOR MANUFACTURE
7	W. J. WOLF	6-15-73	REVISED FOR MANUFACTURE
8	W. J. WOLF	7-15-73	REVISED FOR MANUFACTURE

DRN	12-15-72	FIRST USED ON	digital
CHKD			
ENGR			
PROJ. ENGR			
PROD. ENGR			
NEXT HIGHER ASSY.			
SCALE		SIZE CODE	NUMBER
SHEET 1	OF 2	D CS	5413603-0-1
		REV.	J

MEMORY INVERTER

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DCS 5413603-0-1



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE MEMORY INVERTER  
 NUMBER DCS 5413603-0-1  
 REV. J  
 SCALE SHEET 2 OF 2

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
1	1	D-MD-5013602-0-0	50-13602-00		DRILL & ETCH BD	1		
2	2		10-00016-00		100 PFD 100V +/- 5% 200PP	1		C13
3	3		10-00052-00		0.068MFD 100V +/-10% MYLAR	1		C15
4	4	#BLANK			*** THIS ITEM IS NOT USED ***	-		
5	5		10-05636-00		22 MFD 6.0V +/-10% SOL	1		C2
6	6		10-09312-00		4700 PFD 100V +/- 1% MYLAR	1		C12
7	7		10-10279-00		0.47 MFD 25V +/-20% Z5U C	8		C3,C6-C8,C14,C17-C19
8	8		10-10978-24		0.010MFD 50V +/-10% X7R C	1		C10
9	9		10-11740-01		3300 PFD 50V +/-10% X7R C	1		C15
10	10		10-11683-00		0.022MFD 50V +/-10% X7R C	2		C1,C24
11	11		10-13466-08		680 PFD 50V +/-10% X7R C	1		C21
12	12		10-13466-09		1000 PFD 50V +/-10% X7R C	3		C5,C22,C26
13	13		10-11847-02		0.010MFD 600V +/-10% POLYP	1		C4
14	14		10-14139-00		2200 PFD 600V +/-10% POLYP	2		C25,C27
15	15		10-13397-00		3900 PFD 300V +/-10% 200PP	1		C20
16	16		10-16168-00		5000 MFD 55V +/-20% ALU	1		C28
17	17		10-10978-36		0.10 MFD 50V +/-10% X7R C	1		C11
18	18		10-10866-02		10 MFD 25V +50/-20% SOL	2		C9,C23
19	19		11-05275-00		PIV= 60 IO=300 MA -15NS	10		D3,D5,D6,D8,D13,D14,D21,D22, CONT D26,D27
20	20		11-05871-00		VZ= 5.15 1% 250 MW	1		D12
21	21		11-09991-00		VZ= 6.8 5% 400 MW 1N754A	1		D7
22	22		11-10856-00		VZ= 24.0 5% 400 MW 1N970B	2		D1,D2
23	23		11-12594-01		PIV= 200 IO= 3.00A	1		D10
24	24		11-12594-02		PIV= 600 IO= 3.00A	6		D9,D20,D23,D24,D28,D29
25	25		11-12595-00		PIV= 50 IO= 1.00A AXIAL	2		D16,D18
26	26		11-12595-02		PIV= 600 IO= 1.00A AXIAL	3		D4,D19,D25
27	27		11-14192-00		PIV= 400 IO=15.00A TO-3	1		D11
28	28		11-14435-00		VZ= 5.1 5% 5 W 1N5338	2		D15,D17
29	29		11-10968-00		SCR PIV= 100 IO= .80A 2N5062	1		Q6
30	30		12-16112-01		PCB,HEADER 28POS(2X14).100CC 90D	1		J1
31	31		12-14789-00		INSERT,THREAD	7		

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A		DRN: K.SHEYTANIAN		DIGITAL			
ENG	ECO NUMBER	REV	SECTION	VARIATION INDEX	CHK'D:	F.GAROFALO	DATE:	20-DEC-78	TITLE	PARTS LIST		
---	INIT	A	[A]	00	[M]		DATE:	20-DEC-78	MEMORY INVERTER			
RW	5413603-TW001	B	[B]		[N]		CHK'D:	F.GAROFALO				
AK	5413603-UW192	C	[C]		[P]		DATE:	20-DEC-78				
AK	5413603-TW002	C	[D]		[Q]		DES.ENG:	J.A.HERRMANN				
RW	5413603-TW003	D	[E]		[R]		DATE:	20-DEC-78				
RW	5413603-TW004	E	[F]		[S]		RESP.ENG.:	J.HERMANN				
EC	5413603-TW005	F	[H]		[T]		DATE:	20-DEC-78				
EC	5413603-TW006	H	[J]		[V]							
RH	5413603-TW06A	H	[K]		[W]		MFG.ENG.:	J.COMELLA				
RW	5413603-TW007	J	[L]		[Y]		DATE:	20-DEC-78				
RW	5413603-TW008	K										
JA	5413603-LK009	L										
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			5413603		D-UA-5413603-0-0		B-DD-5413603-0-0		Z0401L.PLS		3	

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						00		
						J2		
32	32		12-16269-01		TERM, SPADE .145STUD SOLDER	5		
33	33		12-16314-00		HEAT SINKS, 2.750X2.44	1		
34	34		12-16314-01		HEAT SINKS, 2.750X1.32	2		
35	35		13-09679-00	16.9	6.0 W 1.0 % WW	2		R48, R68
36	36		13-00195-00	33.0	.50 W 5.0 % CF	1		R26
37	37		13-00229-00	100.0	.25 W 5.0 % CF	4		R6, R8, R16, R54
38	38		13-00250-00		*** THIS ITEM IS NOT USED ***	-		
39	39		13-19471-16	150.0	2.0 W 5.0 % M.OXIDE	1		R28
40	40		13-00271-00	220.0	.25 W 5.0 % CF	1		R17
41	41		13-19470-22	300.0	1.0 W 5.0 % M.OXIDE	1		R27
42	42		13-00309-00	390.0	.25 W 5.0 % CF	2		R19, R41
43	43		13-00316-00	470.0	.25 W 5.0 % CF	1		R3
44	44		13-00364-00	1.0 K	.50 W 5.0 % CF	2		R1, R4
45	45		13-00365-00	1.0 K	.25 W 5.0 % CF	7		R11, R18, R30, R33, R35, R40, R47
46	46		13-00394-00	1.50 K	.50 W 5.0 % CF	1		R36
47	47		13-00439-00	3.30 K	.25 W 5.0 % CF	2		R14, R58
48	48		13-00444-00	3.90 K	.25 W 5.0 % CF	1		R65
49	49		13-00447-00	4.70 K	.25 W 5.0 % CF	1		R38
50	50		13-00479-00	10.0 K	.25 W 5.0 % CF	1		R24
51	51		13-01401-00	750.0	.25 W 5.0 % CF	1		R52
52	52		13-01522-00	27.0	.25 W 5.0 % CF	1		R15
53	53		13-03169-00	500.0	5.0 W 5.0 % WW	2		R60, R61
54	54		13-01972-00	270.0	.25 W 5.0 % CF	1		R7
55	55		13-02873-00	261.0	.25 W 1.0 % RN55D-F10	1		R44
56	56		13-02377-00		*** THIS ITEM IS NOT USED ***	-		
57	57		13-02383-00	360.0	.50 W 5.0 % CF	1		R21
58	58		13-02391-00	20.0 K	.25 W 5.0 % CF	2		R45, R56
59	59		13-04839-00	51.0 K	.25 W 5.0 % CF	1		R64
60	60		13-03114-00		*** THIS ITEM IS NOT USED ***	-		
61	61		13-03313-00	12.10 K	.25 W 1.0 % RN55D-F10	2		R9, R37
62	62		13-05127-00	4.0 K	.25 W 1.0 % RN55D-F10	2		R2, R43
63	63		13-05129-00	8.0 K	.25 W 1.0 % RN55D-F10	2		R5, R42
64	64		13-05145-00	2.80 K	.25 W 1.0 % RN55D-F10	1		R20
65	65		13-05322-00		*** THIS ITEM IS NOT USED ***	-		
66	66		13-19471-20	270.0	2.0 W 5.0 % M.OXIDE	1		R50
67	67		13-05421-00	35.70 K	.25 W 1.0 % RN55D-F10	1		R10
68	68		13-14350-00	1.0	2.0 W10.0 % FUSE	3		R32, R49, R67
69	69		13-09413-00	3.83 K	.25 W 1.0 % RN55D-F10	1		R34
70	70		13-14172-00	270.0	14.0 W 5.0 % WW	1		R29
71	71		13-00426-00	2.70 K	.25 W 5.0 % CF	1		R23
72	72		13-12565-00	13.30 K	.25 W 1.0 % RN55D-F10	1		R25
73	73		13-12923-00		*** THIS ITEM IS NOT USED ***	-		
74	74		13-12930-00	5.10 K	.25 W 5.0 % CF	1		R57
75	75		13-12932-00	36.0 K	.25 W 5.0 % CF	1		R55
76	76		13-13151-00	3.60 K	.25 W 5.0 % CF	1		R66
77	77		13-13581-00	110.0	.25 W 1.0 % RN55D-F10	1		R63
78	78		13-00389-00		*** THIS ITEM IS NOT USED ***	-		
79	79		13-02381-00	200.0	.50 W 5.0 % CF	1		R31
80	80		13-19470-31	1.0 K	1.0 W 5.0 % M.OXIDE	1		R51
81	81		13-00391-00	1.50 K	.25 W 5.0 % CF	2		R22, R39

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY INVERTER		K	PL	5413603-0-DBP	L

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
82	82		13-02395-00		56.0 K .25 W 5.0 % CF	1	
83	83		15-10705-00		XA 05 NPN 500MW SI 60 50 P	4	R46
84	84		15-10706-00		XA 55 PNP 500MW SI 60 50 P	3	Q7,Q8,Q11,Q16
85	85		15-10959-00		2N 3725 NPN 3.5WC SI 50 60 P	1	Q1,Q3,Q9
86	86		15-13489-00		2N 4401 NPN 350MW SI 40 20	3	Q4
87	87		15-14195-00		2N 6547 NPN 400V SI 15A	2	Q2,Q12,Q13
88	88		15-14271-01		D 4405 NPN 31W SI225 30	1	Q14,Q15
89	89		15-09524-00		2N 3904 NPN 310MW SI 40 40 M	1	Q5
90	90		16-14202-00		XFMR,CURRENT	1	Q10
91	91		16-14204-00		PULSE XFMR 20312 BASE DRIVE	1	T2
92	92		19-10298-00		741 OP AMP GEN PURP. COM	1	T1
93	93		19-12108-00		LM339 VOLT CMPRTR,QUAD	1	E2
94	94		19-14250-00		3524 MODULATOR-REGULATING	1	E3
95	95		74-22046-00		HEAT SINK,SINGLE	1	E1
96	96		90-06025-01		SCREW,MACH PAN PHIL 6-	4	
97	97		90-06656-00		WASHER,FLAT STEEL	9	
98	98		90-07801-00		WASHER,HELICAL SPLIT SST	9	
99	99		90-07836-00		EYELET,ROLLED 0.1210DX0.093	6	
100	100		90-10128-00		SCREW,THD RL,PAN PHIL F/METAL	1	
101	101		70-16051-00		TRANSFORMER ASSY	1	T3
102	102		70-16052-00		CHOKE ASSY	1	
103	103		13-03177-00		2.40 K .25 W 5.0 % CF	1	L1
104	104		13-02860-00		11.50 K .25 W 1.0 % RN55D-F10	1	R13
105	105		13-04854-00		5.11 K .25 W 1.0 % RN55D-F10	1	R12
106	106		13-00411-00		2.0 K .25 W 1.0 % RN55D-F10	1	R59
107	107		74-21435-00		MTG BRKT	1	R62
108	108		90-09052-00		*** THIS ITEM IS NOT USED ***	-	
109	109		74-22045-00		CAPACITOR STRAP	2	
110	110		90-09708-00		SCREW,THD RL,PAN PHIL F/METAL	7	
111	111		90-09617-00		TIE,CABLE BUNDL.DIA 0-3"TYPE=101	2	
112	112		90-07035-00		GROMMET,CATERPILLAR POLYAMIDE	A/R	
113	113		90-06071-01		SCREW,MACH PAN PHIL 10-	2	
114	114		90-07906-00		WASHER,HELICAL SPLIT STEEL	2	
115	115		90-09243-00		*** THIS ITEM IS NOT USED ***	-	
116	116		90-07793-01		SCREW,MACH PAN PHIL 6-	1	
117	117		90-09769-00		WASHER,RECTNGLR STEEL	1	
118	118		90-06011-01		SCREW,MACH PAN PHIL 4-	1	
119	119		90-06688-00		WASHER,HELICAL SPLIT SST	1	
120	120		90-06556-00		NUT,HEX 4-40X .264AF SS/N	1	
121	121		90-08268-00		COMPOUND, THERMAL JOINT	A/R	
122	122		90-07201-00		PAD,MOUNTING,COMPONENT	1	
123	123		91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	
124	124		90-07036-00		GROMMET,CATERPILLAR POLYAMIDE	A/R	
125	125		13-14516-00		200.0 K .25 W 5.0 % CF	1	
126	126		90-09157-00		ADH,LIQ,RM,TEMP CURING COLORLESS	A/R	R53
127	127		91-07256-11		TUBING,TEFLON .027ID	A/R	
128	128		70-16920-00		JUMPER ASSY	1	
129	129		91-07560-01		WIRE,BUSS 22AWG TIN BARE	A/R	
130	130		90-06565-00		NUT,HEX EXT TOOTH LCKWSHR 10-32	1	
131	131		54-13882-00		SNV SNUBBER	1	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY INVERTER		K	PL	5413603-0-DBP	L

AUTOMATED BY VAXKPL (V1.2)

PARTS LIST

SHEET A4 OF A4

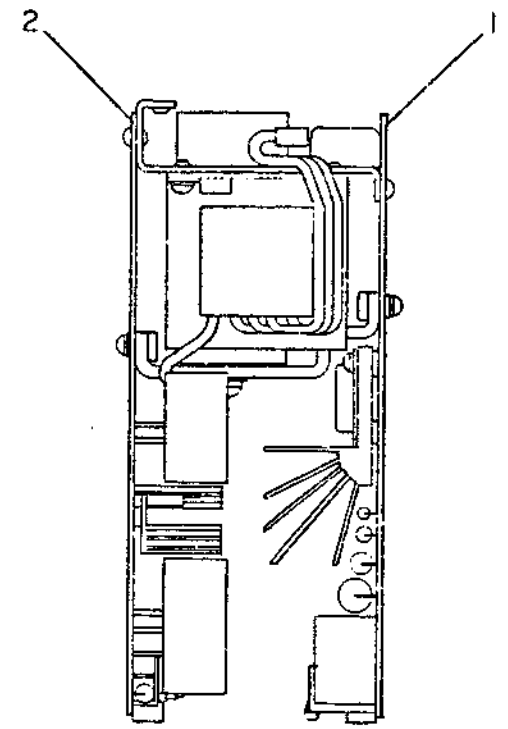
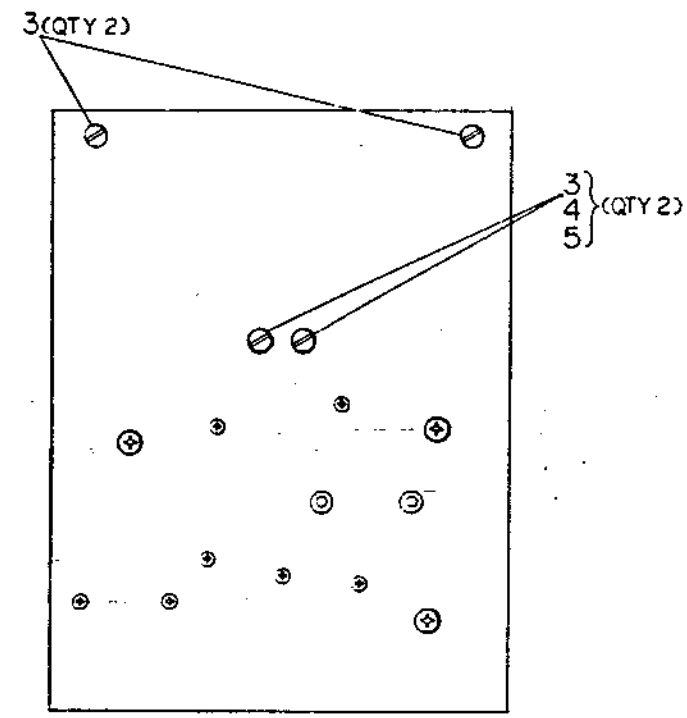
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
132	132		90-07853-01		SCREW, MACH PAN PHIL 6-	2	
133	133		90-06803-00		SPACER, CLEAR HOLE HEX ALUM 6	2	
134	134		90-09708-01		SCREW, THD RL, PAN PHIL F/METAL	1	
135	135		16-22663-01		BEAD, FERRITE .2000DX.250LG	4	L2-L5
136	136	B-MD-7431383-0-DBU	74-31383-01		INSULATOR, COMPONENT	1	

- 1 GEN: ITEM #123: .52' IS USED.
- 2 GEN: ITEM #124: .08' IS USED.
- 3 GEN: ITEM #127: .56' IS USED.
- 4 GEN: ITEM #129: .37' IS USED.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY INVERTER		K	PL	5413603-0-DBP	L

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AD7016050-0-0 2



QTY	DESCRIPTION	DWG PART NO.	ITEM NO.
2	WASHER, FLAT #6	9006556-00	5
2	WASHER, LOCK, S.S. #6	9007801-00	4
4	SCREW, PAN HD, SELF TAP #6-32 X .31 LG	9009708-00	3
1	MEMORY REGULATOR BOARD	5413607-00	2
1	MEMORY INVERTER BOARD	5413603-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
ANGLES UP TO 90°	CLASS OF ACCURACY
SURFACE QUALITY	CHECK DIMS
FINISH	PREFERRED

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

ORN. *M. [unclear]*

CHK'D *[unclear]*

ENGR. *[unclear]*

PROJ. ENG. *[unclear]*

PROD. *[unclear]*

NEXT HIGHER ASSY.

SIZE CODE **D**

SCALE NONE

SHEET 1 OF 1

FIRST USED ON **4743**

TITLE **H7-2**

**MEMORY VOLTAGE ASSY**

NUMBER **AD7016050-0-0**

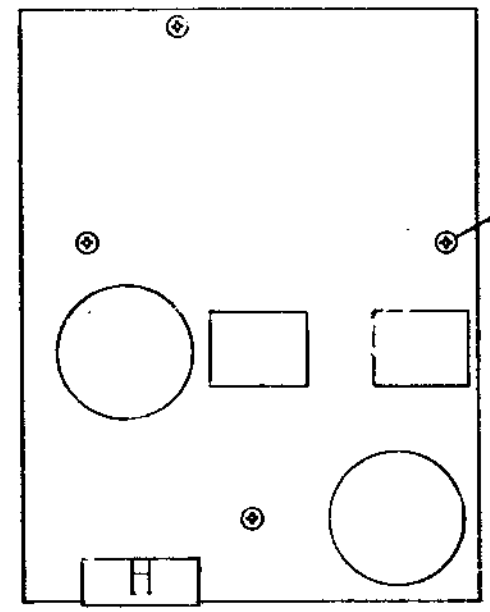
REV **\***

AD7016050-0-0 1

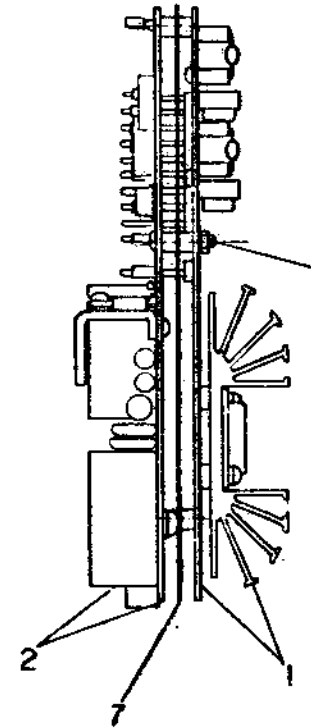
V 0-0-2509102 2

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LEGEND	
PART NO.	REV.
7016057-00	A1



QTY 4



REF

CAUTION: SEE OFF SHEET PARTS LIST  
K-PL-7016057-0-DBP

DESCRIPTION	DWG./PART NO.	ITEM NO.
SHIELD, ELECTROMAGNETIC	1700021-08	1
4 NUT, HEX #6-32 X .25 A.E.	9008957-00	6
4 WASHER, LOCK SS #6	9007901-00	5
4 SCR, PHIL PAN HD #6-32 X .60 CG	9007794-01	4
4 SPACER, HEX ALUM #2 X .38 CG	9006844-00	3
1 LOGIC INVERTER CONT BD	5413601-00	2
1 LOGIC INVERTER BD	5413599-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
ANGLE	CLASS OF ACCURACY
30°	F
45°	F
90°	F
120°	F
150°	F
180°	F
270°	F
360°	F
FINISH	PREPARED
1.000	1.000
1.000	1.000
1.000	1.000
1.000	1.000
1.000	1.000
1.000	1.000

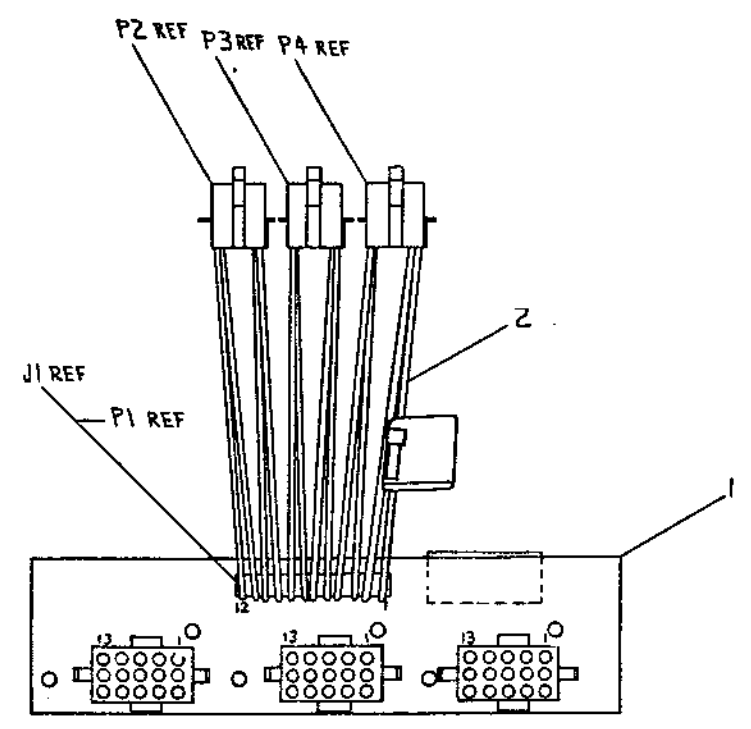
REV.	DATE	BY	CHKD.
1	11/17/40	T.WOODS	A
2	11/17/40	D. GERRY	21-ANN-BD
3	11/17/40	B. WOLF	

THIRD ANGLE PROJECTION	DRN. 2/11/40 6-5-79	FIRST USED ON H7140
REMOVE BURRS AND BREAK SHARP CORNERS	CHKD. 11/17/40	
DO NOT SCALE DWG	ENGR. 11/17/40	TITLE H7140 +5V INVERTER ASSY
MATERIAL SEE PARTS LIST	PROJ. ENGR. 11/17/40	SIZE CODE NUMBER REV. D AD 7016057-0-0 A
FINISH	SCALE NONE	SHEET 1 OF 1

8 7 6 5 4 3 2 1

0-0-8889102 JVA 2

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1	CABLE JUMPER ASSY	D-1A-7016887-00	2
1	POWER DIST BOARD	D-1A-5413630-0	1
DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 90° ± .01	CLASS OF ACCURACY	TOLERANCES	
SURFACE QUALITY	CHECK ONE	FEEL	VISUAL
BY DIMENSIONS	MEDIUM	1.004	1.008
	PREFERRED	1.013	1.018
THIRD ANGLE PROJECTION	DRN <i>[Signature]</i>	12 MAR 77	FIRST USED ON
REMOVE SHARP AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i>	2 MAY 77	BAN-A digital
DO NOT SCALE DWG	ENGR <i>[Signature]</i>	1 JUN 77	TITLE
	PROJ. ENGR <i>[Signature]</i>	15 JUN 77	POWER DISTRIBUTION BOARD ASSY
	PROOF <i>[Signature]</i>	15 JUN 77	
MATERIAL	E-1A-BAN-R-0	SIZE CODE	NUMBER
FINISH	SCALE 1:1	D	AD 7016888-0-0
	SHEET 1 OF 1	DIST.	REV. *

REVISIONS  
CHANGE NO. (REV.)

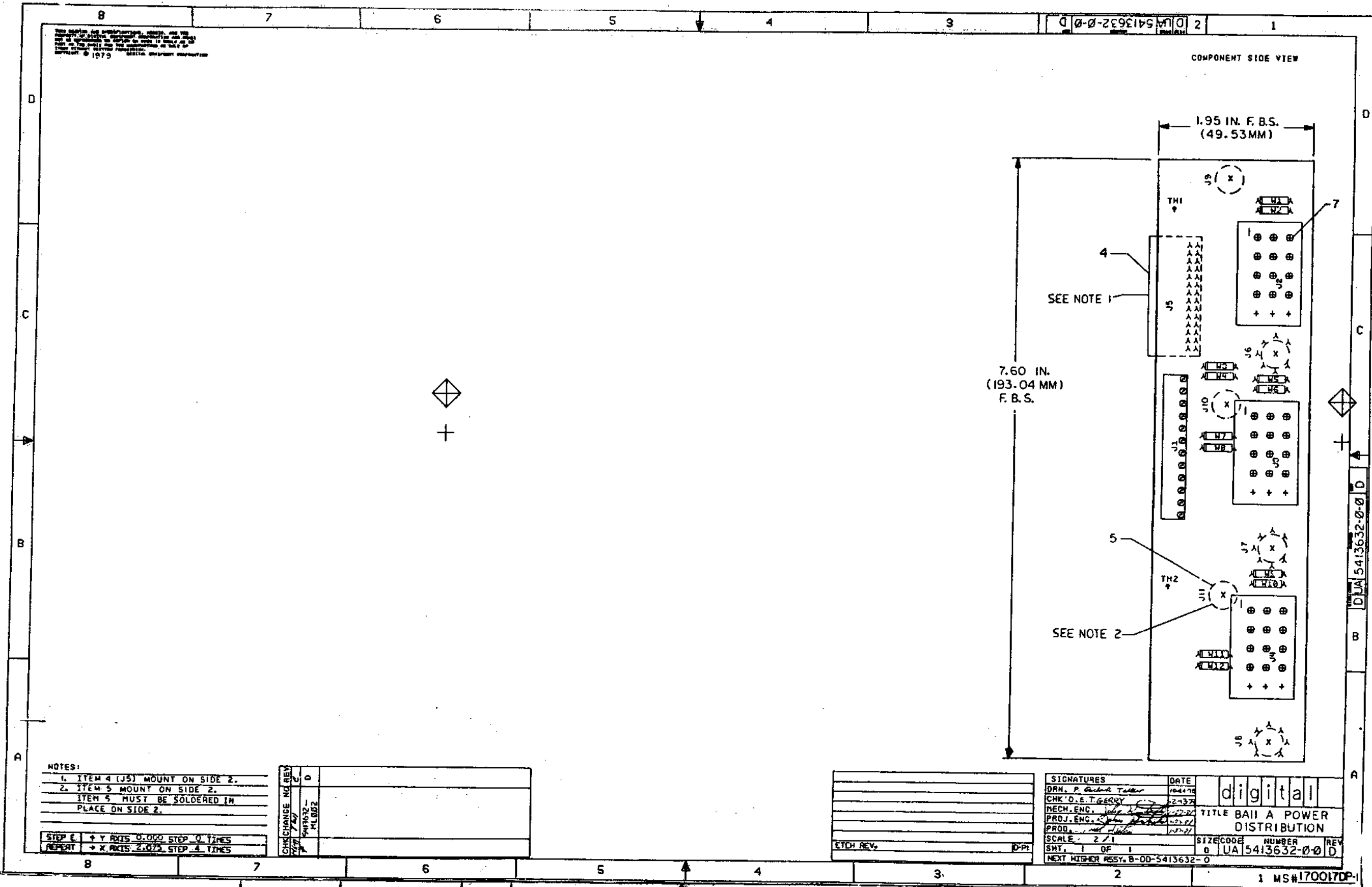
8 7 6 5 4 3 2 1

TW 1

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2 DUA 5413632-0-0 D

COMPONENT SIDE VIEW



- NOTES:
- ITEM 4 (J5) MOUNT ON SIDE 2.
  - ITEM 5 MOUNT ON SIDE 2.
  - ITEM 5 MUST BE SOLDERED IN PLACE ON SIDE 2.

STEP E + Y AXIS 0.000 STEP 0 TIMES  
 REPEAT + X AXIS 2.074 STEP 4 TIMES

CHK CHANGE NO	REV	
7/79	7	D
5413632-		HL052

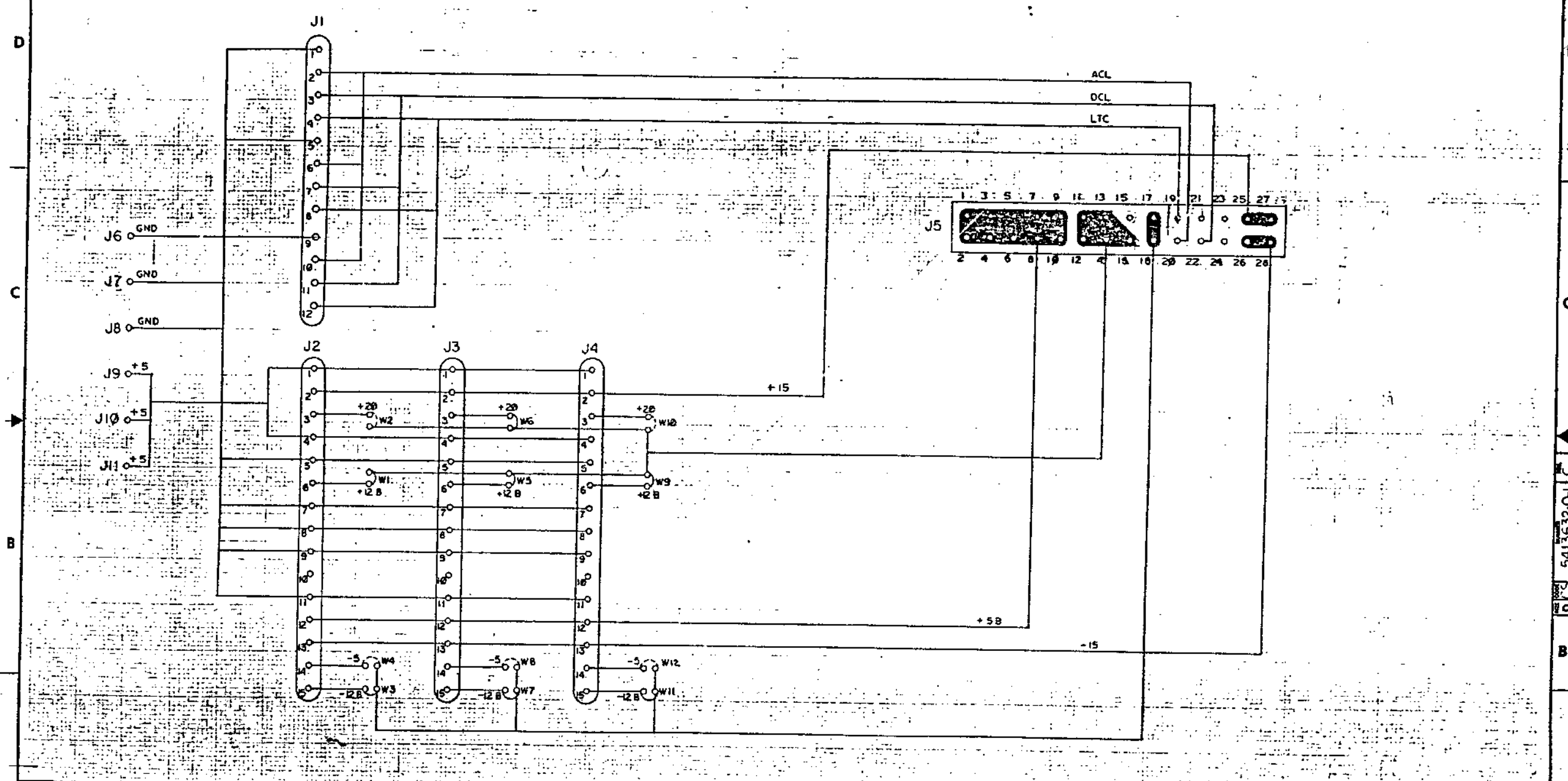
ETCH REV.	D-PI
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SIGNATURES	DATE
DRN. P. GARDNER	10-4-78
CHK'D. E. T. GERRY	12-1-78
MECH. ENG.	12-2-78
PROJ. ENG.	12-2-78
PROD.	12-2-78
SCALE 2/1	
SMT. 1 OF 1	
NEXT HIGHER REVISION B-DD-5413632-0	

digital	
TITLE BAI A POWER DISTRIBUTION	
SIZE CODE	NUMBER
0 UA	5413632-0-0 D
REV	

1 MS#1700170P-1

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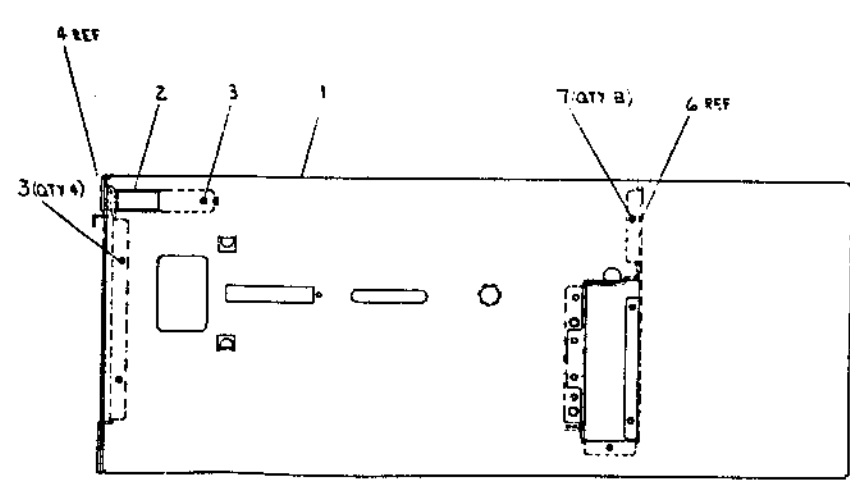
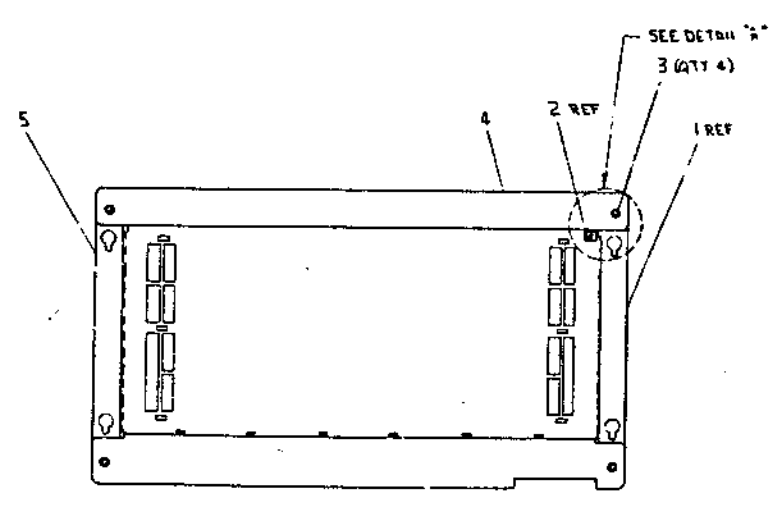
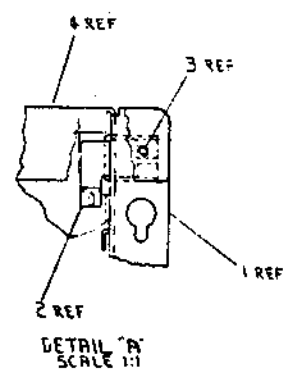
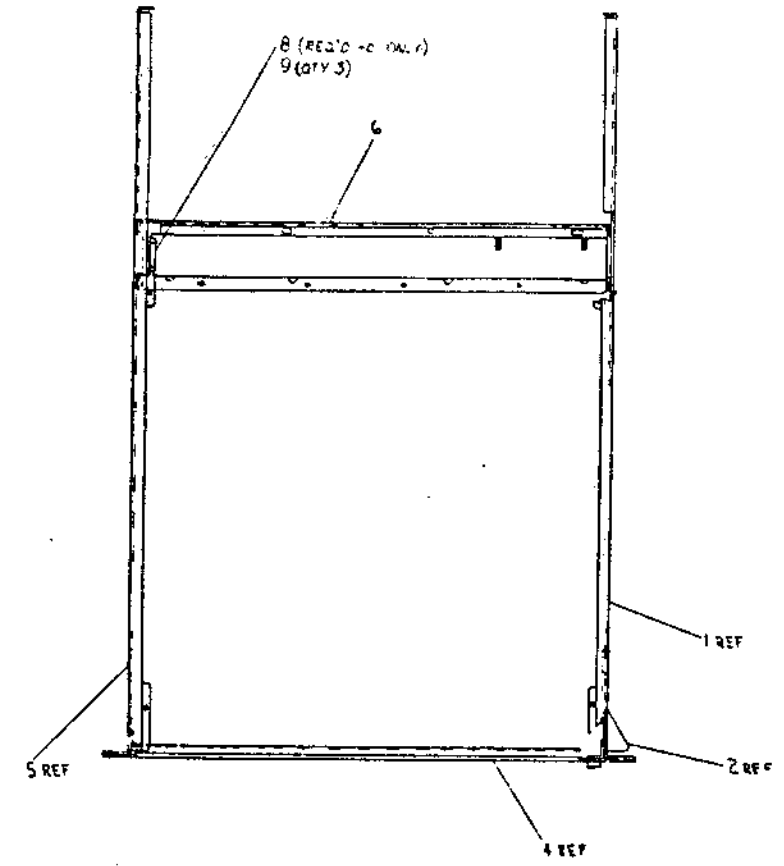
REV	DATE
1	10/1/75
2	10/1/75
3	10/1/75
4	10/1/75
5	10/1/75
6	10/1/75
7	10/1/75
8	10/1/75

DRN. <i>P. J. [Signature]</i>	REVISIONS	FIRST USED ON	<i>10/1/75</i>
CHKD. <i>[Signature]</i>	BY	TITLE	
ENGR. <i>[Signature]</i>	DATE	BAI-A POWER DISTRIBUTION BOARD	
PROD. ENGR. <i>[Signature]</i>	DATE	SCALE	
NEXT HIGHER ASSY.		SIZE CODE	NUMBER
		D CS	5413632-0-1
		SHEET	REV.
		1 OF 1	G
			TW



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716493-00	E2	6	1
716493-01	E2	6	1



CAUTION: OFF SHEET PARTS LIST, SEE K-PL-7016493-0-233 (Z3400)

716493-00	E2	6	1
716493-01	E2	6	1

DESCRIPTION	QTY	ITEM NO.
12 RIVET 2018S, 1/8" X 1/4"	8	7
1 PAN TRAY 1/8" X 1/4" X 1/4"	1	2
1 SIDE PANEL LEFT	1	3
1 CARD EDGE PLATE	1	4
1 RIGHT SIDE OF PLATE	1	5
1 SPRING BOX LOCK	1	6
1 SIDE PANEL RIGHT	1	7

APPROVED	DATE	BY
DESIGNED	DATE	BY
CHECKED	DATE	BY
ENGINEER	DATE	BY
DRAWN	DATE	BY
CHECKED	DATE	BY
DATE	BY	

TITLE	BAI-A BOX FRAME ASSEMBLY
SCALE	AS SHOWN
SHEET	OF 1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	
						00	01
1	1	E-ME-7421610-0-0	7421610-00		SIDE PANEL LEFT	1	1
2	2	D-MD-7421616-0-0	7421616-00		BOX, SPRING LOCK	1	1
3	3		9000030-05		RIVET, BLIND DOME 0.156DX0.362	9	9
4	4	E-MD-7421441-0-0	7421441-00		CARD CAGE FRONT	1	1
5	5	E-ME-7421631-0-0	7421631-00		SIDE PANEL LEFT	1	1
6	6	E-IA-7016390-0-0	7016390-00		FANTRAY SUPPORT WELDMENT	1	1
7	7		1216063-00		RIVET, BLIND	8	8
8	8	C-MD-7426276-0-0	7426276-01		SUPPORT, COVER, CABLE COMPARTMENT	-	1
9	9		9009626-00		RIVET, BLIND DOME 0.125DX0.275	-	3

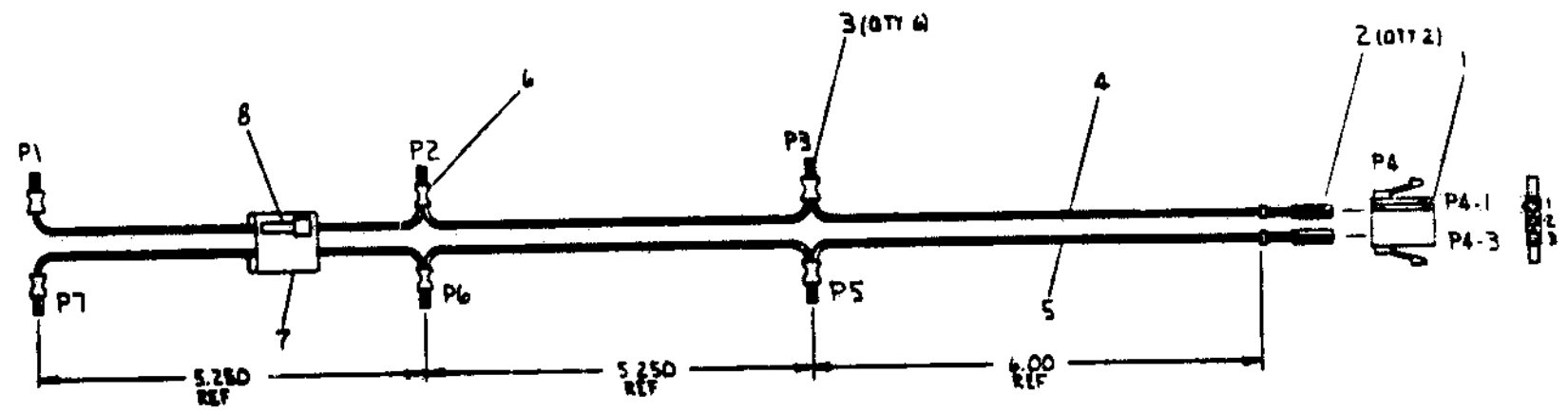
REVISION HISTORY			BASIC PART NO: 7016493		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: H. DARAKJIAN	DATE: 5-JAN-82
---	INITIAL	D	SECTION VARIATION INDEX	CHK'D: T. MCCULLOUGH	DATE: 5-JAN-82
RM	BA11-AE-TW001	E	(A)00,01	DES. ENG: R. BOUDREAU	DATE: 29-JUN-82
RM	BA11-A-TW005	F	(B)	RESP. ENG.: R. GRUDA	DATE: 29-JUN-79
			(C)	MFG. ENG.: J. COMELLA	DATE: 6-JUL-79
			(D)	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:
			(E)	E-IA-7016493-0-0	E-AD-7016391-0-0
			(F)		FILE NAME: Z3600F.PLS
					RELEASE DATE: 17-JUN-85
					EDIT #: 7

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DATE: 10-1-66  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]

WIRE TABLE							
WIRE NO.	AWG	COLO	POINT	CONNECTION	TERM.	POINT	CONNECTION
1	18	RED	P1			P2	
3	18	RED	P2			P3	
4	18	RED	P3			P4	P4-1
4	18	WHITE	P7			P6	
4	18	WHITE	P6			P5	
4	18	WHITE	P5			P4	P4-3

LEGEND	
PAR. NO.	PART REV.
7016392-00	B1



CAUTION: SEE OFF SHEET PARTS LIST K-PL-706392-0-0BP. (27324B.PLS)

1	CABLE 557-M	9007031-00	
1	LABELED CABLE T.D.	9009332-00	7
1	SHRINK TUBING 1/8" DIA.	9102254-04	4
4	WIRE #18 AWG RED	1101360-22	5
4	WIRE #18 AWG WHITE	9107360-04	4
4	TERMINAL 1805 P/STON	9004447-00	3
2	PIN #18 AWG MHE N LDC	1204937-01	2
1	CONN 3 PIN MHE N LDC	1204935-03	1

1	WIRE #18 AWG RED	1101360-22	5
1	WIRE #18 AWG WHITE	9107360-04	4
1	TERMINAL 1805 P/STON	9004447-00	3
1	PIN #18 AWG MHE N LDC	1204937-01	2
1	CONN 3 PIN MHE N LDC	1204935-03	1

QUANTITY & VARIATION	DESCRIPTION	REQ. PART NO.	UNIT OF MEAS.
1	CABLE 557-M	9007031-00	
1	LABELED CABLE T.D.	9009332-00	7
1	SHRINK TUBING 1/8" DIA.	9102254-04	4
4	WIRE #18 AWG RED	1101360-22	5
4	WIRE #18 AWG WHITE	9107360-04	4
4	TERMINAL 1805 P/STON	9004447-00	3
2	PIN #18 AWG MHE N LDC	1204937-01	2
1	CONN 3 PIN MHE N LDC	1204935-03	1

REV. NO.	REV. DATE	REV. BY	REV. REASON
1			

TITLE	7016392-0-0
DESCRIPTION	FAN ASSEMBLY CABLE
SCALE	1:1
DATE	10-1-66
DRAWN BY	[Signature]
CHECKED BY	[Signature]
APPROVED BY	[Signature]
DATE	10-1-66

SEE PARTS LIST

7016392-0-0

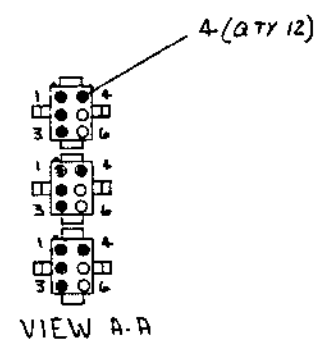
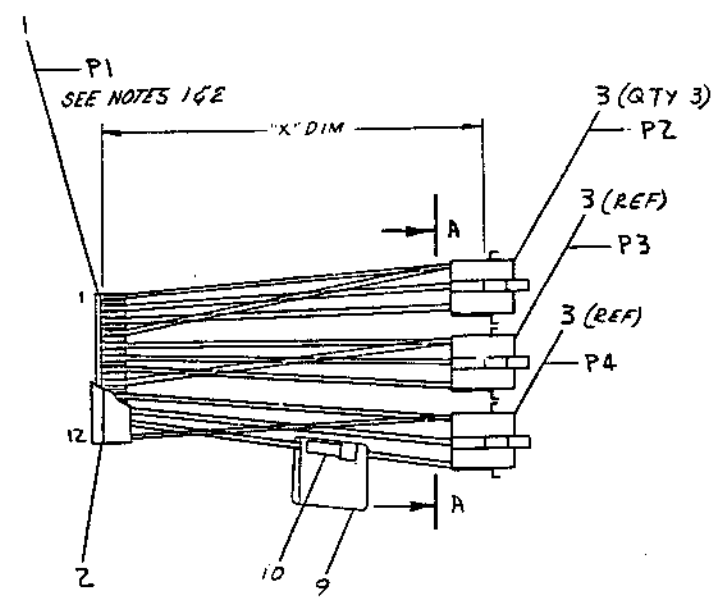
0-0-788910Z JAN 82

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 GEACIA ELECTRONIC COMPANY  
 1977

WIRE TABLE						
ITEM NO	AWG	COLOR	FROM CONN TERM	TO CONN TERM	NOTES	
5	18	BLK	P1-1	P2-1	4	5.00IN ± .04
6		YEL	P1-2	P2-4		
7		VIO	P1-3	P2-3		
8		BRN	P1-4	P2-2		
5		BLK	P1-5	P3-1		
6		YEL	P1-6	P3-4		
7		VIO	P1-7	P3-3		
8		BRN	P1-8	P3-2		
5		BLK	P1-9	P4-1		
6		YEL	P1-10	P4-4		
7		VIO	P1-11	P4-3		
8	18	BRN	P1-12	P4-2	4	5.00IN ± .04

LEGEND	
NUMBER	"X" DIM
7016887-DE	5.0 ± .5IN

- NOTES**
1. WIRES TERMINATING TO P1 MUST NOT BE STRIPPED.
  2. PLACE COVER, ITEM #2, OVER CONN HOUSING, ITEM #3, AFTER WIRES HAVE BEEN TERMINATED.
  3. STRIP WIRES OIL ON P2, P3, P4 ENDS .187 BEFORE CRIMPING CONTACTS.
  4. ITEM #4 CAN BE SUBSTITUTED BY PIN 12-09379-00 FOR MACHINE CRIMPING.



ITEM NO	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	TIE, CABLE SSTI-M	9007031-00	10
1	LABEL, CABLE IDENTIFICATION	9009532-00	9
15	WIRE, 18 AWG, BRN, UL1430	9107786-11	8
15	WIRE, 18 AWG, VIO, UL1430	9107786-77	7
15	WIRE, 18 AWG, YEL, UL1430	9107786-44	6
5	WIRE, 18 AWG, BLK, UL1430	9107786-00	5
12	SKT, MATE-N-LOK, 20-4 AWG	1209379-01	4
3	CONN, 6 PIN MATE N LDC	1209350-06	3
1	COVER, 12 PIN MTR CONN	1216650-00	2
1	CONN HOUSING, 12 POS MTR	1216651-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
ANGLES ± 30'	CLASS OF ACCURACY
SURFACE QUALITY	CHECK ONE
QUANTITY & VARIATION	PRECISION
THIRD ANGLE PROJECTION	DRN: [Signature]
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D: [Signature]
DO NOT SCALE DWG	PROL ENG: [Signature]
MATERIAL	FINISH
FIRST USED ON: BAH-A digital	
TITLE: CABLE JUMPER ASSEMBLY	
SIZE: D AD	NUMBER: 7016887-C-0
SCALE: 1/1	REV: A
SHEET: 1	OF: 1

REV	DATE	BY	CHKD
1	1/1/82	WJ	WJ
2	1/1/82	WJ	WJ

D AD 7016887-C-0-A

TW 1

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\*\*\*\*\* FIELD MAINTENANCE PRINT SET \*\*\*\*\*

TABLE OF CONTENTS

B-TC-H7204-A-1 FIELD MAINTENANCE PRINT SET  
 E-VA-H7204-0-0 H7204-A POWER SUPPLY  
 K-PL-H7204-A-DBP H7204-A POWER SUPPLY  
 E-IA-7022127-0-0 POWER CORD ASSY  
 K-PL-7022127-0-DBP POWER CORD ASSY  
 B-DD-H7204-A-0 H7204-A POWER SUPPLY  
 E-VA-5413869-0-0 H7213 REGULATOR BD.  
 D-CS-5413869-0-1 H7213 REGULATOR BD.  
 B-DD-5413869-0-0 H7213 REGULATOR BD.  
 K-PL-5413869-0-DBP H7213 REGULATOR BD.  
 E-VA-5415580-0-0 H7217 REGULATOR BD.  
 D-CS-5415580-0-1 H7217 REGULATOR BD.  
 B-DD-5415580-0-0 H7217 REGULATOR BD.  
 K-PL-5415580-0 H7217 REGULATOR BD.  
 D-VA-5416154-0-0 DISTRIBUTION BD.  
 D-CS-5416154-0-1 DISTRIBUTION BD.  
 B-DD-5416154-0-0 DISTRIBUTION BD.  
 K-PL-5416154-0-DBP DISTRIBUTION BD.  
 E-IA-H7203-A-0 MOTHER BD. ASSY.  
 K-PL-H7203-A-DBP MOTHER BD. ASSY.  
 E-UA-5416120-0-0 MOTHER BD.  
 D-CS-5416120-0-1 MOTHER BD.  
 B-DD-5416120-0-0 MOTHER BD.  
 K-PL-5416120-0-DBP MOTHER BD.  
 E-IA-7020608-0-0 CHASSIS ASSY.  
 K-PL-7020608-0-DBP CHASSIS ASSY.  
 E-AD-7021682-0-0 A/C MAJOR BD. ASSY.  
 K-PL-7021682-0-DBP A/C MAJOR BD. ASSY.  
 E-IA-7021675-0-00 A/C ASSY.  
 K-PL-7021675-0-DBP A/C ASSY.

UNIT-VARIATIONS
H7204-AA
H7204-AB

FIELD MAINTENANCE PRINT SET  
 DIGITAL EQUIPMENT CORPORATION  
 PRINT SET ORDER NO. MP01760-01 REV A1

USED ON OPTION/MODEL	DRN.	DATE
	A. PERRY	29 NOV. 84
	CHK'D	DATE
	A. PERRY	29 NOV. 84
	PROJ. ENG.	DATE
	S. CHOW	29 NOV. 84
	FIELD SERV.	DATE
	D. ROGERS	29 NOV. 84
SHEET 1 OF 2		

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d i g i t a l

TITLE: H7204-A POWER SUPPLY			
SIZE	CODE	NUMBER	REV
B	TC	H7204-A-1	A
DIST.			

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\*\*\*\*\* FIELD MAINTENANCE PRINT SET \*\*\*\*\*

TABLE OF CONTENTS

D-AD-7021669-0-0 BUSS BARR ASSY.  
 K-PL-7021669-0-DBP BUSS BARR ASSY.  
 B-IA-7021668-0-0 SNUBBER ASSY.  
 K-PL-7021668-0-DBP SNUBBER ASSY.  
 E-AD-7021667-0-0 HEATSINK ASSY.  
 E-PL-7021667-0-DBP HEATSINK ASSY.

UNIT VARIATIONS
H7204-AA
H7204-AB

FIELD MAINTENANCE PRINT SET

DIGITAL EQUIPMENT CORPORATION

PRINT SET ORDER NO. MP01760-01 REV A1

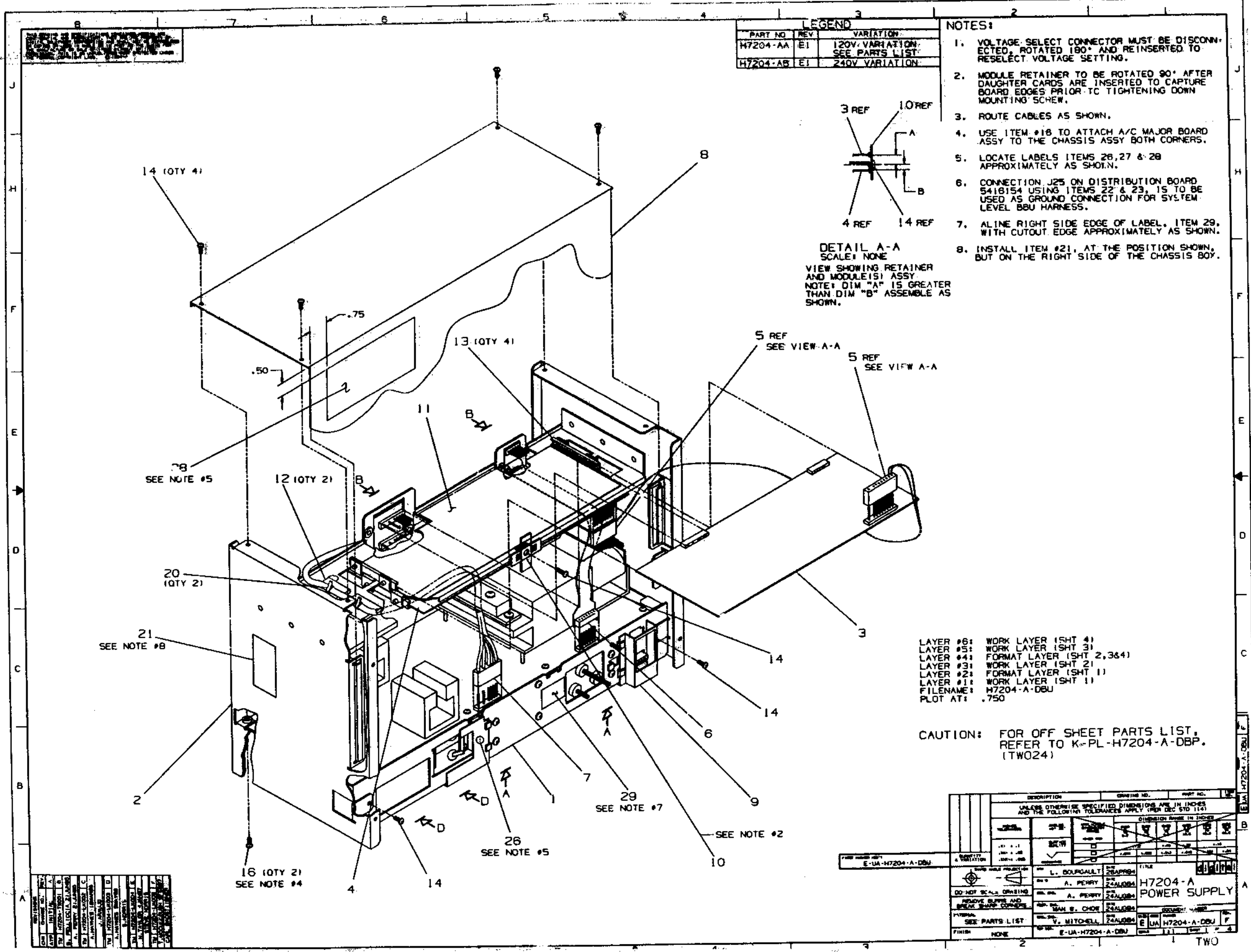
USED ON OPTION/MODEL	DRN.	DATE
	A. PERRY	29 NOV. 84
	CHK'D A. PERRY	DATE 29 NOV. 84
	PROJ. ENG. S. CHOW	DATE 29 NOV. 84
	FIELD SERV. D. ROGERS	DATE 29 NOV. 84
SHEET 2 OF 2		

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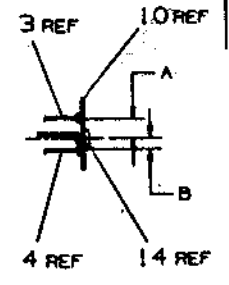
digital

TITLE: H7204-A POWER SUPPLY			
SIZE	CODE	NUMBER	REV
B	TC	H7204-A-1	A
DIST.			

TW1



LEGEND		
PART NO	REV	VARIATION
H7204-AA	E1	120V VARIATION. SEE PARTS LIST.
H7204-AB	E1	240V VARIATION.



DETAIL A-A  
SCALE: NONE  
VIEW SHOWING RETAINER AND MODULE(S) ASSY.  
NOTE: DIM "A" IS GREATER THAN DIM "B" ASSEMBLE AS SHOWN.

- NOTES:
- VOLTAGE SELECT CONNECTOR MUST BE DISCONNECTED, ROTATED 180° AND REINSERTED TO RESELECT VOLTAGE SETTING.
  - MODULE RETAINER TO BE ROTATED 90° AFTER DAUGHTER CARDS ARE INSERTED TO CAPTURE BOARD EDGES PRIOR TO TIGHTENING DOWN MOUNTING SCREW.
  - ROUTE CABLES AS SHOWN.
  - USE ITEM #18 TO ATTACH A/C MAJOR BOARD ASSY TO THE CHASSIS ASSY BOTH CORNERS.
  - LOCATE LABELS ITEMS 26, 27 & 28 APPROXIMATELY AS SHOWN.
  - CONNECTION J25 ON DISTRIBUTION BOARD 5418154 USING ITEMS 22 & 23, IS TO BE USED AS GROUND CONNECTION FOR SYSTEM LEVEL BBU HARNESS.
  - ALINE RIGHT SIDE EDGE OF LABEL, ITEM 29, WITH CUTOUT EDGE APPROXIMATELY AS SHOWN.
  - INSTALL ITEM #21, AT THE POSITION SHOWN, BUT ON THE RIGHT SIDE OF THE CHASSIS BOY.

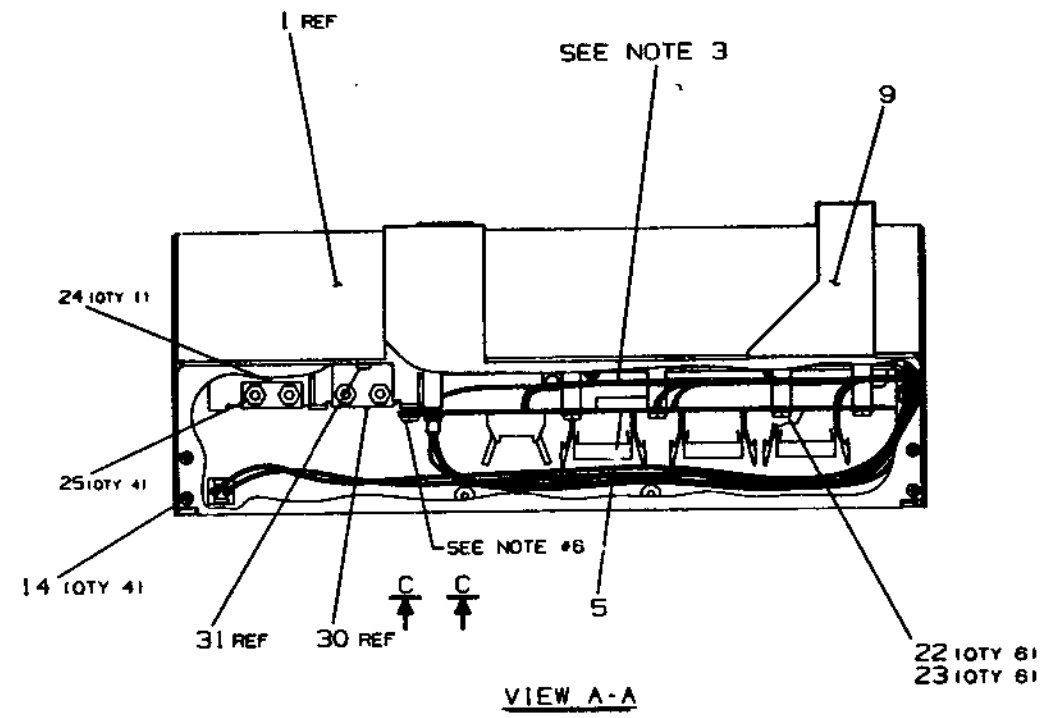
LAYER #6: WORK LAYER (SHT 4)  
LAYER #5: WORK LAYER (SHT 3)  
LAYER #4: FORMAT LAYER (SHT 2, 3&4)  
LAYER #3: WORK LAYER (SHT 2)  
LAYER #2: FORMAT LAYER (SHT 1)  
LAYER #1: WORK LAYER (SHT 1)  
FILENAME: H7204-A-DBU  
PLOT AT: .750

CAUTION: FOR OFF SHEET PARTS LIST, REFER TO K-PL-H7204-A-DBP. (TWO24)

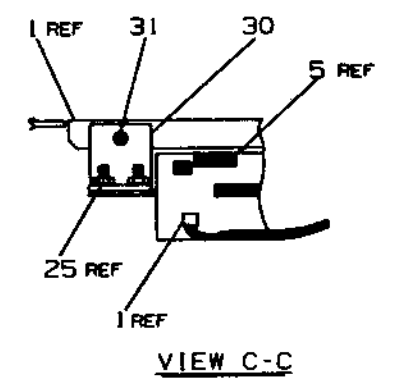
REV	DATE	BY	CHKD	DESCRIPTION
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DESCRIPTION	QTY	UNIT	REV	DATE	BY	CHKD	APPROV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)							
DIMENSION RULES IN INCHES							
ASSEMBLY	±.005	±.005	±.005	±.005	±.005	±.005	±.005
DRILLING	±.005	±.005	±.005	±.005	±.005	±.005	±.005
TURNING	±.005	±.005	±.005	±.005	±.005	±.005	±.005
THREADS	±.005	±.005	±.005	±.005	±.005	±.005	±.005
WELDING	±.005	±.005	±.005	±.005	±.005	±.005	±.005
ETCHING	±.005	±.005	±.005	±.005	±.005	±.005	±.005
COATING	±.005	±.005	±.005	±.005	±.005	±.005	±.005
FINISH	±.005	±.005	±.005	±.005	±.005	±.005	±.005
DATE	REV	BY	CHKD	APPROV	TITLE		
11/11/88	1	L. SOUCCALLI			H7204-A POWER SUPPLY		
		A. PERRY					
		A. PERRY					
		W. E. CHOI					
		V. MITCHELL					
		E. UA			H7204-A-DBU		
		E-UA-H7204-A-DBU					

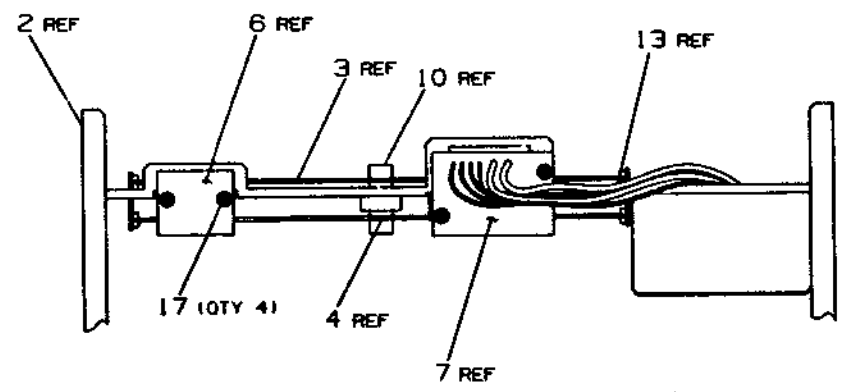
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DATE 05-14-2013 BY 60324 JAL/STW  
EXEMPT FROM E.O. 13526  
UNLESS INDICATED OTHERWISE  
DATE 05-14-2013 BY 60324 JAL/STW



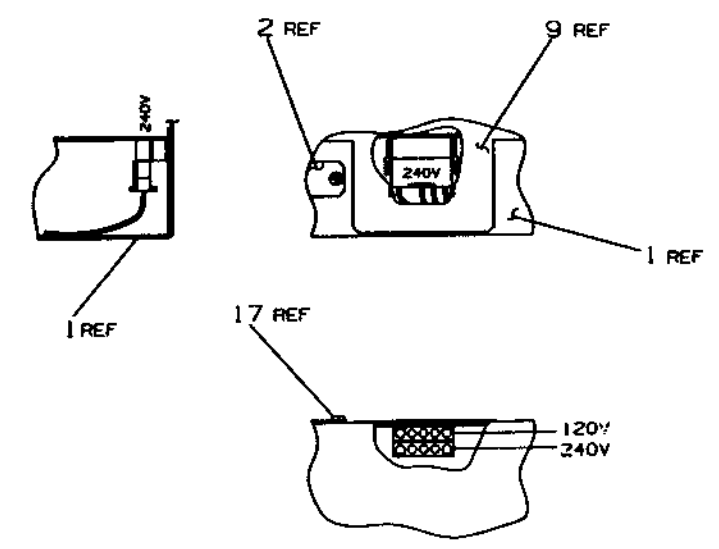
VIEW A-A



VIEW C-C



VIEW B-B



VIEW D-D  
SEE NOTE 3

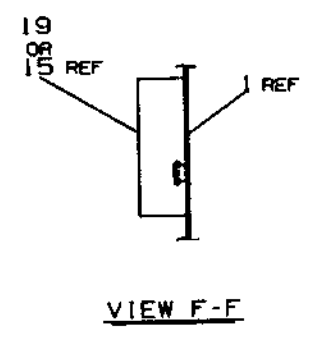
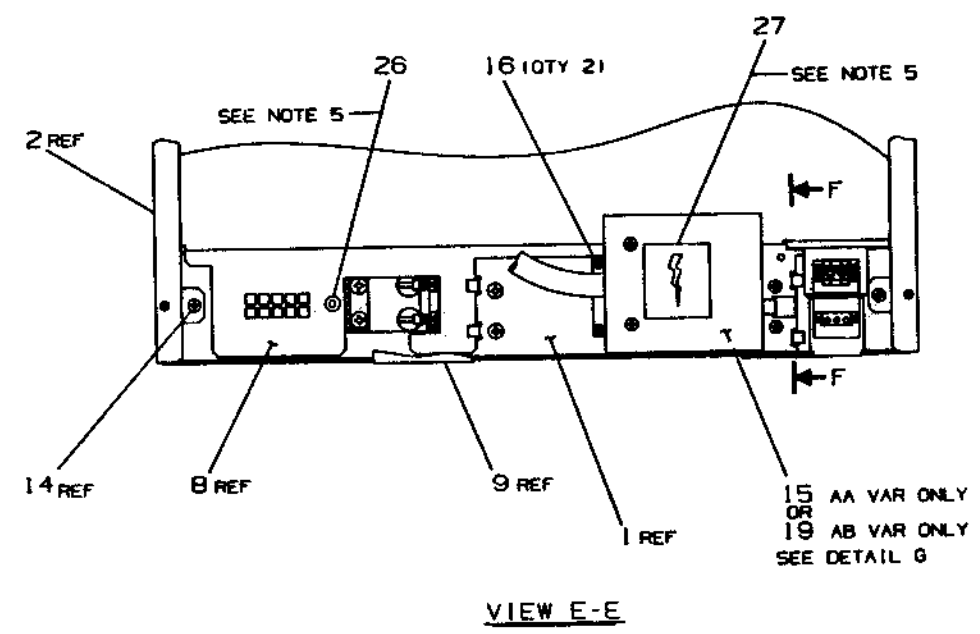
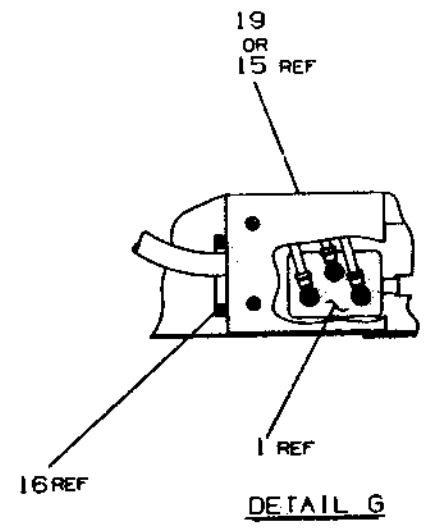
LAYER #8: WORK LAYER (SHT 4)  
LAYER #5: WORK LAYER (SHT 3)  
LAYER #4: FORMAT LAYER (SHT 2,3&4)  
LAYER #3: WORK LAYER (SHT 2)  
LAYER #2: FORMAT LAYER (SHT 1)  
LAYER #1: WORK LAYER (SHT 1)  
FILENAME: H7204-A-DBU  
PLOT AT: .750

DATE	REV	DESCRIPTION



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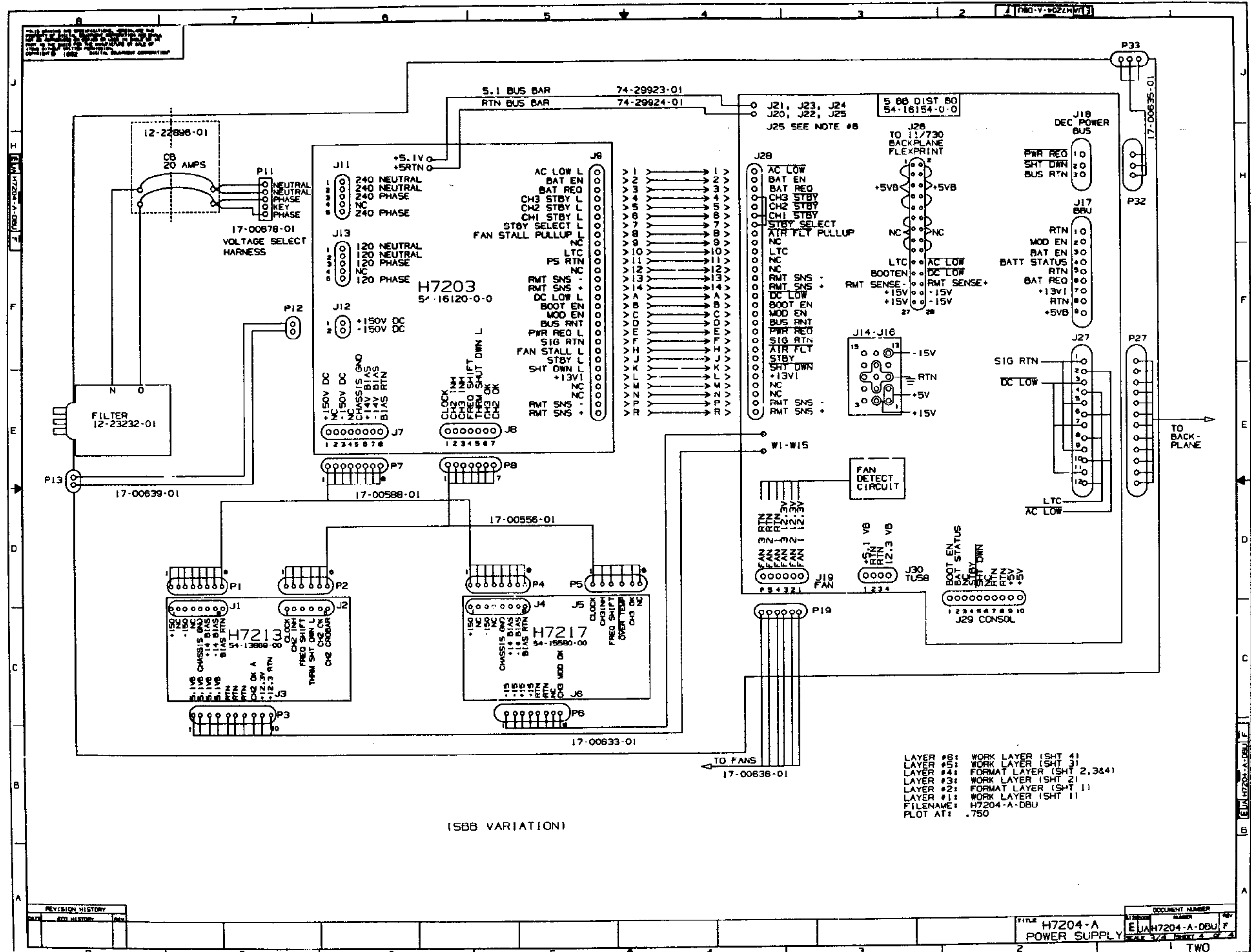
1780-V-802 (M) (3)



LAYER #6: WORK LAYER (SHT 4)  
 LAYER #5: WORK LAYER (SHT 3)  
 LAYER #4: FORMAT LAYER (SHT 2,3&4)  
 LAYER #3: WORK LAYER (SHT 2)  
 LAYER #2: FORMAT LAYER (SHT 1)  
 LAYER #1: WORK LAYER (SHT 1)  
 FILENAME: H7204-A-DBU  
 PLOT AT: .750

REVISION HISTORY		
DATE	BY	DESCRIPTION

DOCUMENT NUMBER  
 TITLE: H7204-A  
 POWER SUPPLY  
 SCALE: 3/4  
 SHEET: 3 OF 4  
 TWN



(SBB VARIATION)

LAYER #6: WORK LAYER (SHT 4)  
 LAYER #5: WORK LAYER (SHT 3)  
 LAYER #4: FORMAT LAYER (SHT 2,3&4)  
 LAYER #3: WORK LAYER (SHT 2)  
 LAYER #2: FORMAT LAYER (SHT 1)  
 LAYER #1: WORK LAYER (SHT 1)  
 FILENAME: H7204-A-DBU  
 PLOT AT: .750

REVISION HISTORY		
DATE	BY	DESCRIPTION

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	AA E1	AB E1	QUANTITY PER VARIATION/REVISION
1	1	E-AD-7021682-0-DBU	70-21682-01	D	A/C MOJOR BOARD ASSY.	1	1	
2	2	E-IA-7020608-0-DBU	70-20608-01		CHASE ASSEMBLY	1	1	
3	3		54-13869-00		H7213 MEMORY REG	1	1	
4	4		H7217-00		COMMUNICATION REGULATOR,+15V 5A,-1	1	1	
5	5		54-16154-01		ELEM SBB PWR DIST FOR H7204 PS	1	1	
6	6		17-00556-01		WIRE HARN ASSY 07COND 26AWG P+S CO	1	1	
7	7		17-00588-01		HARNESS,WIRE 6COND TERM BOTH ENDS	1	1	
8	8	E-MD-7429749-0-DBU	74-29749-01		COVER, CHASSIS	1	1	
9	9	D-MD-7430190-0-DBU	74-30190-01		COVER,DISTRIBUTION	1	1	
10	10	B-MD-7430087-0-DBU	74-30087-01		RETAINER,MODULE	1	1	
11	11		36-17973-04		LABEL,INSULATOR ADH 10.5 X 2.80	1	1	
12	12		90-08264-00		MOUNT, CABLE TIE, ADHESIVE BACKED,	2	2	
13	13		12-11375-02		GUIDE,CARD ,NYLON ,SNAP-IN	4	4	
14	14		90-09701-00		SCREW,SEMS PAN PHIL 6-32	11	11	
15	15	E-IA-7022127-0-DBU	70-22127-01		POWER CORD ASSY.	1	-	
16	16		90-10155-00		SCREW,SEMS PAN PHIL 6-32	4	4	
17	17		90-09643-02		SCREW,SEMS PAN PHIL 4-40	4	4	
18	18	BLANK			*** THIS ITEM IS NOT USED ***	-	-	
19	19	E-IA-7022127-0-DBU	70-22127-02		POWER CORD ASSY	-	1	
20	20		90-07032-00		TIE,CABLE BUNDL DIA 0-1-3/4"=101	2	2	
21	21		90-09255-00		LABEL, POWER SUPPLY, 2-15/16 " LG	1	1	
22	22		90-06656-00		WASHER,FLAT STEEL	6	6	
23	23		90-09984-02		SCREW,SEMS PAN PHIL 6-32	6	6	
24	24	C-MD-7422731-0-0	74-22731-00		MOUNTING BRACKET	1	1	
25	25		90-06565-00		NUT,HEX EXT TOOTH LCKWSHR 10-32X	4	4	
26	26		36-15680-00		LABEL,ADHESIVE BACK,SWITCH POSITIO	1	1	
27	27		36-10267-00		LABEL,DANGER HIGH VOLTAGE,SMOOTH	1	1	
28	28		36-24103-01		LABEL,UNIT ID H7204	1	1	
29	29		36-24104-01		LABEL,TERMINAL ID	1	1	
30	30	C-MD-7422731-0-0	74-22731-01		BRACKET,MOUNTING	1	1	
31	31		90-06070-01		SCREW,MACH PAN PHIL 10-32	1	1	

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A	DRN: L. BOURGAULT	DIGITAL		
ENG:	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 27-AUG-84	TITLE PARTS LIST		
---	INITIAL	A	[A] AA,AB		CHK'D: A. PERRY	H7204-A POWER SUPPLY		
AP	H7204-TW001	B	[B]		DATE: 27-AUG-84			
JA	H7204-LK002	C	[C]		DES.ENG: A. PERRY	DOCUMENT NUMBER		
SN	H7204-LK003	D	[D]		DATE: 27-AUG-84	SIZE	CODE	NUMBER
SN	H7204-LK004	E	[E]		RESP.ENG.: MAN W. CHOW	K	PL	H7204-A-DBP
CB	H7204-LK005	F	[F]		DATE: 27-AUG-84			F
			[H]		MFG.ENG: V. MITCHELL	RELEASE DATE: 05-MAR-87		
			[J]		DATE: 27-AUG-84	RELEASE STATUS: RELEASED		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
H7204		E-UA-H7204-A-DBU		E-UA-H7204-A-DBU	TW024F.PLS	1		

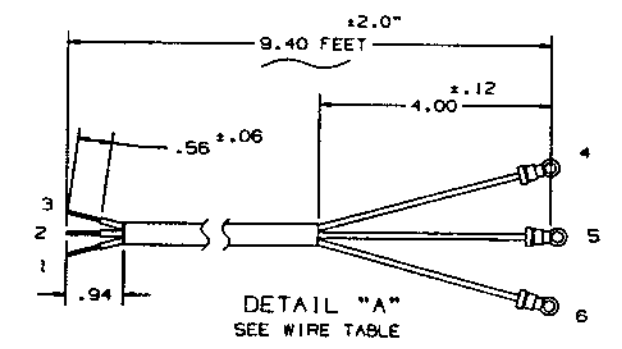
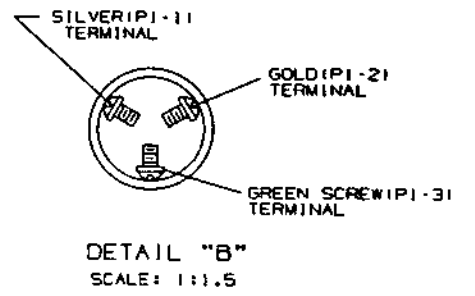
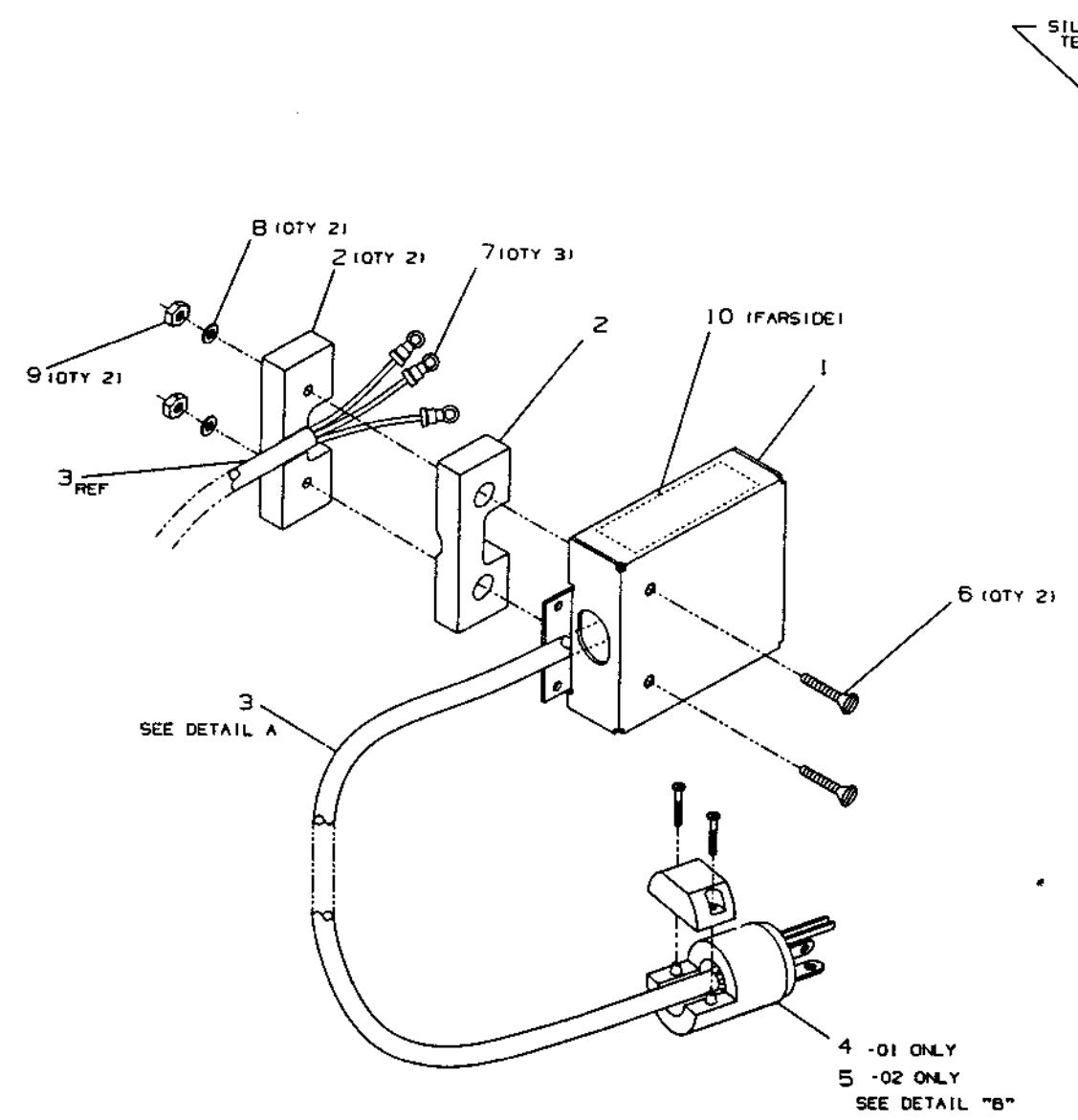
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WIRE TABLE											
ITEM	DESCRIPTION	NO.	AWG	COLOR	POINT	CONNECTION	WIDTH	POINT	CONNECTION	WIDTH	STRIP LENGTH
3	14	GRN/YEL	1	PI-3	6			7			.28" ± .05
3	14	BLU	2	PI-1	5			7			.28" ± .05
3	14	BRN	3	PI-2	4			7			.28" ± .05

LEGEND		
PART NO	REV	VARIATION
7022127-01	A1	120V VARIATION
7022127-02	A1	240V VARIATION

NOTES:  
 1. TERMINAL P1-1 IS SILVER ON THE 120V VARIATION ONLY. ON THE 240V VARIATION BOTH P1-1 AND P1-2 ARE GOLD.  
 2. TORQUE ALL SCREWS PER A-SP-7865328-0-0.



LAYER 1: WORK LAYER  
 LAYER 2: FORMAT LAYER

PLOT AT: 1.00  
 CAUTION: OFF SHEET PARTS LIST EXISTS  
 SEE K-PL-7022127-0-DBP  
 Z9608

REV	DATE	INITIAL

DESCRIPTION		DRAWING NO.		PART NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)					
DATE	BY	CHECKED	BY	DATE	BY
E-UA-M7204-0-DBUA		A. PERRY		Z0ALG84	
A. PERRY		Z0ALG84		Z0ALG84	
A. PERRY		Z0ALG84		Z0ALG84	
MAN S. CHOW		Z0ALG84		Z0ALG84	
Y. MITCHELL		Z0ALG84		Z0ALG84	
E-IA-7022127-0-DBUA		E-IA-7022127-0-DBUA		E-IA-7022127-0-DBUA	

POWER CORD ASSEMBLY

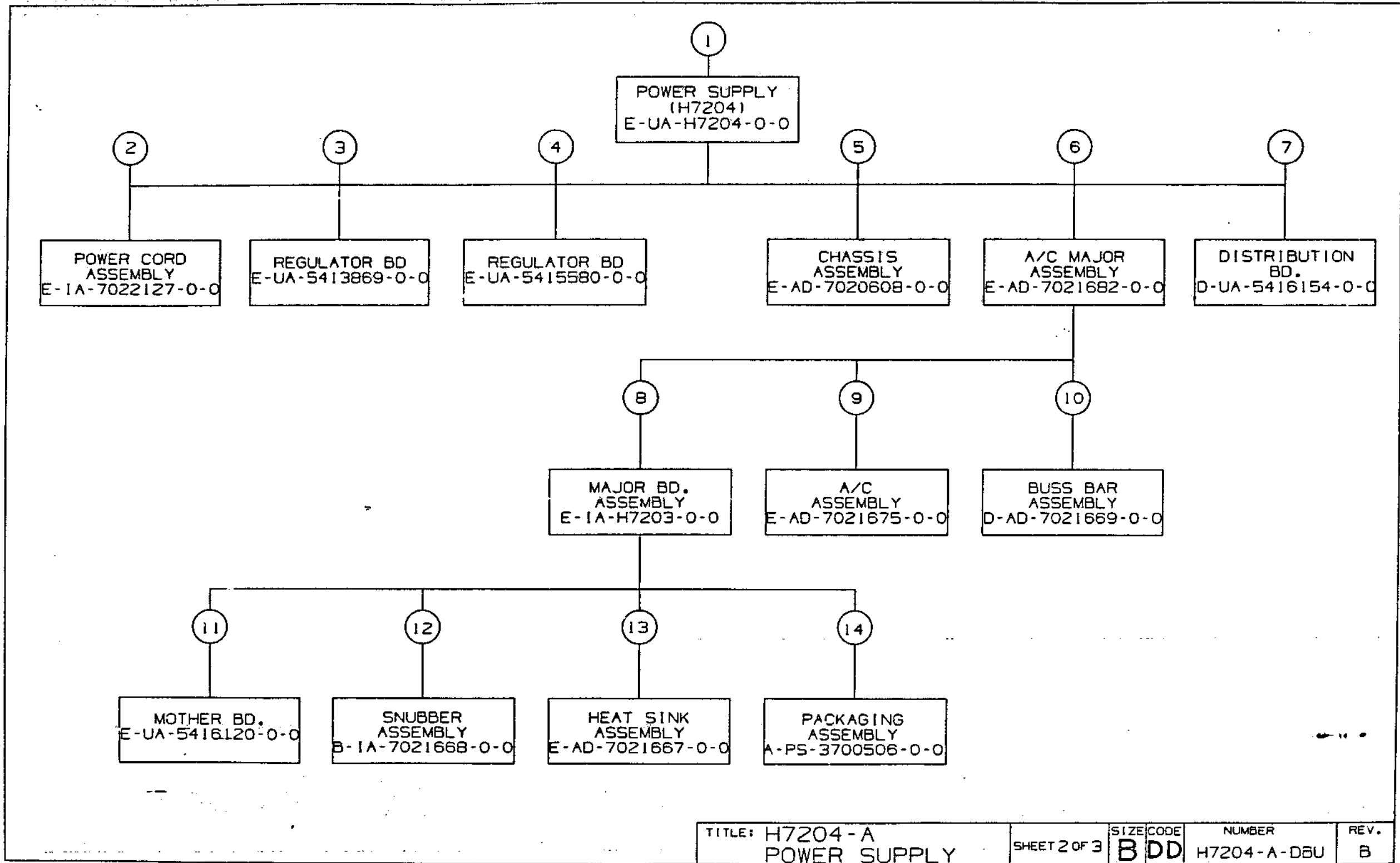
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION	
					01 A1	02 A1
1	C-MD-7430796-0-0	74-30796-01		COVER, A/C	1	1
2	A-PS-1215566-0-0	12-15566-00		CLAMP, CABLE SCREW MNT	2	2
3	#SEE NOTE	17-00027-01		PWR CORDAGE 3COND 14AWG SJT	A/R	A/R
4		90-08853-00		CONN, POWER 02P03W PLUG NEMA 06-15P	-	1
5		12-15183-00		CONN, POWER 02P03W PLUG NEMA 05-20	1	-
6		90-06042-02		SCREW, MACH FLAT PHIL 8-32	2	2
7		90-07928-00		TERM, RING #10STUD CRIMP 14-16A	3	3
8		90-06660-00		WASHER, FLAT SST	2	2
9		90-06563-00		NUT, HEX EXT TOOTH LCKWSHR 8-32X	2	2
10		90-09255-03		LABEL, P.S./SUB.ASSY ID	1	1

1 GEN: QUANTITY OF ITEM #3 TO BE 9.42 FEET.

REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A		DRN: A. PERRY		DATE: 20-AUG-84		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		CHK'D: A. PERRY		DATE: 20-AUG-84		TITLE PARTS LIST		POWER CORD ASSEMBLY	
---	INITIAL	A	[A]	01,02	DES. ENG: A. PERRY		DATE: 20-AUG-84		DOCUMENT NUMBER			
AP	H7204-TW001	B	[B]		RESP. ENG.: MAN W. CHOW		DATE: 20-AUG-84		SIZE	CODE	NUMBER	REV
JA	7022127-LK001	C	[C]		MFG. ENG: V. MITCHELL		DATE: 20-AUG-84		K	PL	7022127-0-DBP	C
			[D]		RELEASE DATE: 21-FEB-86		RELEASE STATUS: RELEASED					
			[E]		BASIC PART NUMBER: 7022127		ASSEMBLY NUMBER: E-UA-H7204-A-DBU		TOP DOCUMENT NUMBER: E-IA-7022127-0-DBU		FILE NAME: Z9608C.PLS	
			[F]								EDIT # 2	
			[G]									
			[H]									
			[I]									
			[J]									

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TITLE: H7204-A POWER SUPPLY	SHEET 2 OF 3	SIZE CODE B DD	NUMBER H7204-A-DBU	REV. B
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FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	E-UA-H7204-0-0	H7204-A POWER SUPPLY	E/M	8	E-1A-H7203-0-0	MAJOR BD. ASSEMBLY	E/M
	K-PL-H7204-0-DBP	POWER SUPPLY PARTS LIST	-		D-1A-7429748-0-0	MOTHER BD. BRACKET	M
	E-MD-7430190-0-0	DISTRIBUTION COVER	M		C-MD-7430094-0-0	CAPACITOR BRACKET	M
	E-MD-7429749-0-0	CHASSIS COVER	M				
	A-PS-1700556-0-0	FLEX CABLE	E				
	B-MD-7430087-0-0	MODULE RETAINER	M				
	A-PS-3615680-0-0	LABEL, ADHESIVE BACK, SWITCH POSITION		9	E-AD-7021675-0-0	A/C ASSEMBLY	E/M
	A-PS-3610267-0-0	LABEL, DANGER HIGH VOLTAGE			A-PS-1223232-0-0	LINE FILTER	E
	A-PS-3624103-0-0	LABEL, UNIT IDENTIFICATION			E-1A-7429745-0-0	A/C BRACKET	M
	A-PS-3624104-0-0	LABEL, TERMINAL IDENTIFICATION			A-PS-1222896-0-0	CIRCUIT BREAKER	E
					A-PS-1700639-0-0	BBU CABLE	E
2	E-1A-7022127-0-0	POWER CORD ASSEMBLY	E/M		A-PS-1700678-0-0	VOLTAGE SELECT HARNESS	E
	C-MD-7430794-0-0	A/C COVER	M		A-PS-1700635-0-0	CABLE ASSEMBLY	E
3	E-UA-5413869-0-0	H7213 REGULATOR BD.	E				
				10	D-AD-7021669-0-0	BUSS BAR ASSEMBLY	M
					D-1A-7429923-0-0	+5 BUSS	M
					D-1A-7429924-0-0	RETURN BUSS	M
4	E-UA-5415580-0-0	H7217 REGULATOR BD.	E				
5	E-AD-7020608-0-0	CHASSIS ASSEMBLY	M	11	E-UA-5416120-0-0	MOTHER BD.	E/M
	E-1A-7429743-0-0	RIGHT PANEL	M				
	E-1A-7429744-0-0	LEFT PANEL	M				
	E-1A-7429746-0-0	MODULE BRACKET	M				
	C-MD-7429747-0-0	BAFFLE BRACKET	M	12	B-1A-7021668-0-0	SNUBBER ASSEMBLY	E/M
6	E-AD-7021682-0-0	A/C MAJOR BD ASSEMBLY	E/M	13	E-AD-7021667-0-0	HEAT SINK ASSEMBLY	E/M
	C-MD-7430833-0-0	MYLAR INSULATOR	E/M		A-PS-1222726-0-0	HEAT SINK	
					C-1A-7430160-0-0	CAPACITOR BRACKET	M
7	D-UA-5416154-0-0	DISTRIBUTION BD.	E	14	A-PS-3700506-0-0	PACKAGING ASSEMBLY	-
	A-PS-1700633-0-0	POWER HARNESS	E				

TYPE: E ELECTRICAL  
M MECHANICAL  
E/M ELECTRO/MECHANICAL



TITLE: H7204-A  
POWER SUPPLY

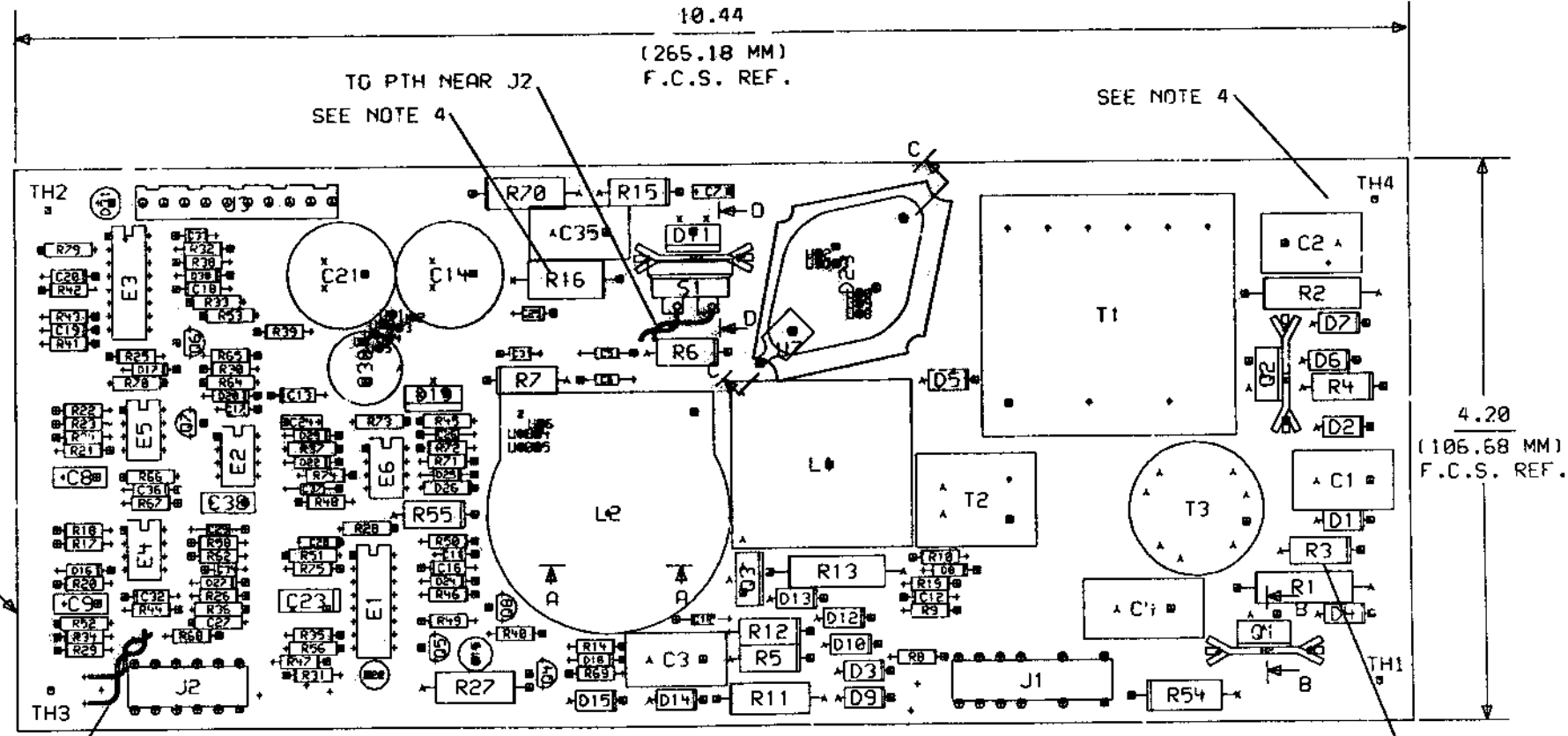
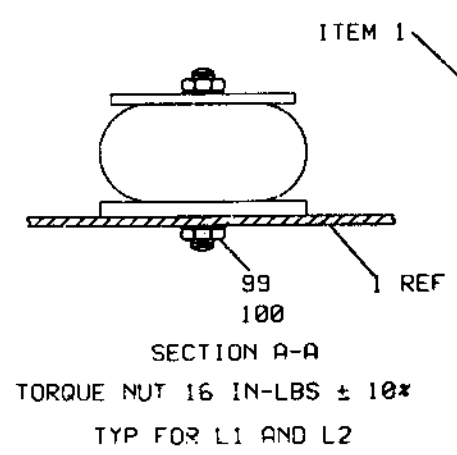
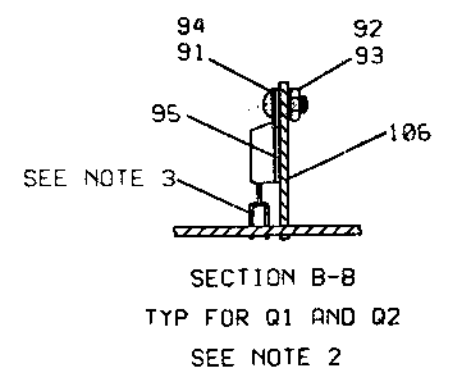
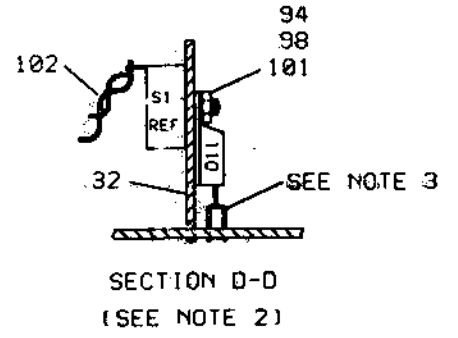
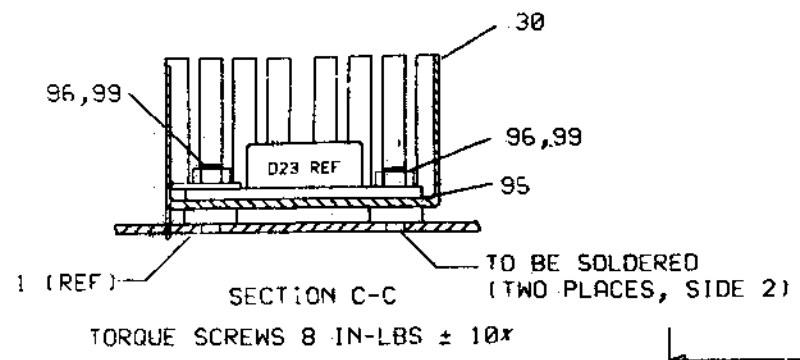
SHEET 3 OF 3  
SIZE CODE B DD  
NUMBER H7204-A-DBU  
REV. B

ORB 108A

TWO



ALL DIMENSIONS AND TOLERANCES UNLESS OTHERWISE SPECIFIED ARE IN INCHES AND DECIMALS THEREOF. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.



CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
	T.M. VACHEROT				

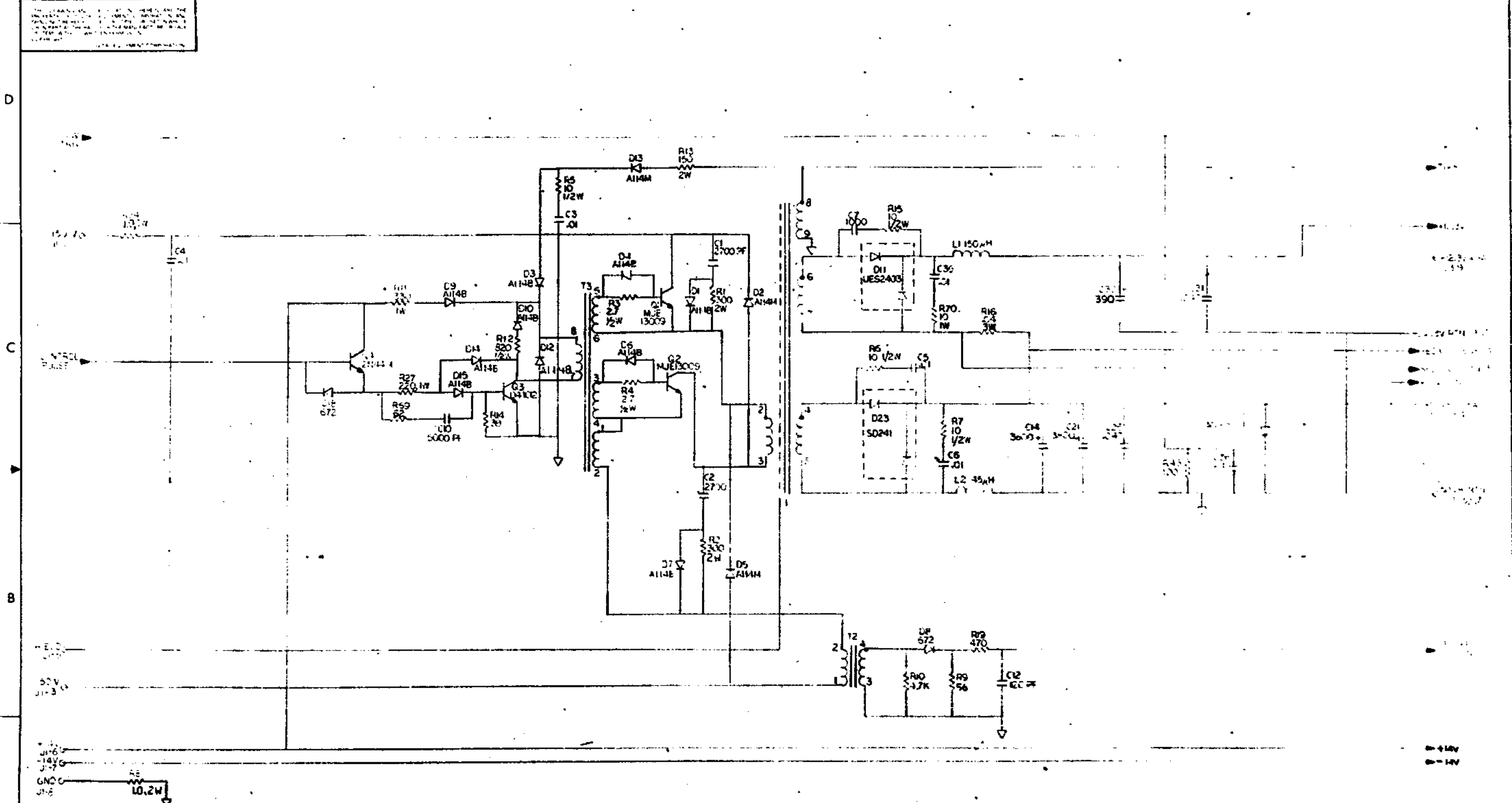
CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES  
 1. UL REQUIREMENT IS HPWR  
 2. ASSEMBLE ALL ITEMS BEFORE INSTALLING ON BOARD  
 3. ADD STRAIN RELIEF AS SHOWN  
 4. RAISE OFF BOARD .10 ± .05

ETCH REV. E1P4

SIGNATURES		DATE	digital
DRAWN B. HALDIE		02/08/82	
CHECKED E.T. GERRY		03/11/82	
MECH ENG B. STANDISH		01/12/83	
PROJ ENG B. STANDISH		01/12/83	
PROD H. PEREZ		01/11/83	
SCALE 2/1			
SHEET 1 OF 1			
TOP DOC NO K-00-5413869-0-0			

REVISIONS  
 1. ORIGINAL DESIGN  
 2. REVISED TO ADD  
 3. REVISED TO ADD  
 4. REVISED TO ADD



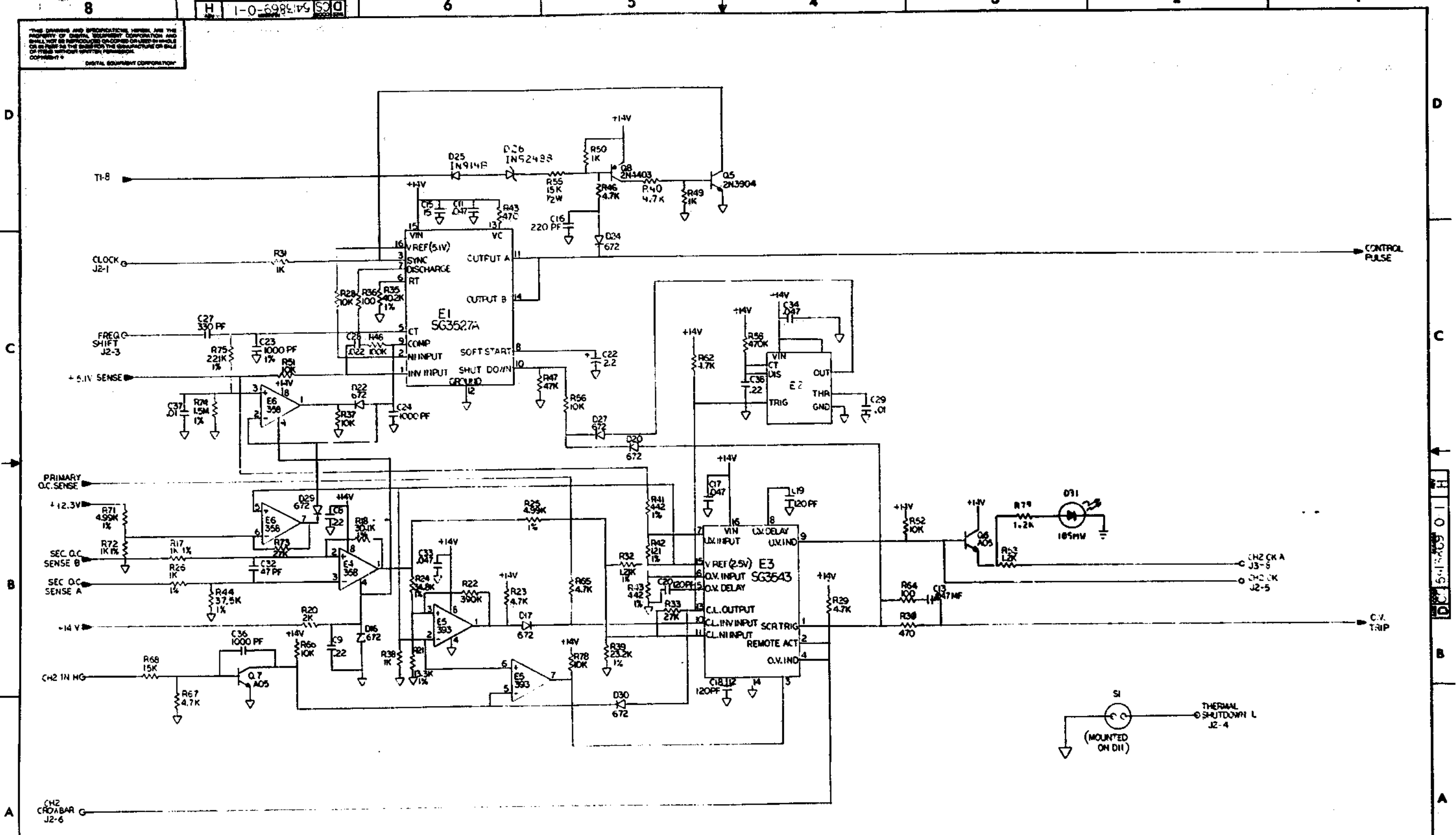
DATE	BY	CHKD	APP'D
10/1/53	W. F. (W. F. L. S. P. S.)		
10/1/53	B. STARDISH		
10/1/53	S. C. LANGRISH		
10/1/53	R. L. W. (W. F. L. S. P. S.)		
10/1/53	R. J. W. (W. F. L. S. P. S.)		
10/1/53	C. MADSTIKER		
10/1/53	A. V. (W. F. L. S. P. S.)		

Thomas F. (W. F. L. S. P. S.)	10/1/53	H7213 MEMORY REGULATOR
B. Stardish	10/1/53	
Check on file	10/1/53	D CS 5413869-0-1

1-0-69869-0-1

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DIGITAL EQUIPMENT CORPORATION



REVISION HISTORY		
DATE	ISS. NUMBER	REV.

TITLE  
H7213  
MEMORY REGULATOR

DOCUMENT NUMBER		
REV.	ISS.	REV.
CS	5413869-C-1	H
FORM 2-1	ISSUED	OF 2

MKO

DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS
D-UA-5413869-0-0	1	5413869-00	PART REVISION	- - - - - E1 F1 H1
K-PL-5413869-0-DBP	3		UNIT ASSEMBLY	A B C C D D E F H J
D-CS-5413869-0-1	2		FARTS LIST	A B C C D D E F H J
K-PC-5413869-0-D5G	-		SCHEMATIC	C C D D D D D D IN IN
K-PC-5413869-0-DdV	-		PC DATA BASE	- - - - - E E
K-60-5013869-0-0	1		PC DESIGN DATABASE	- - - - - A B B
E-UA-5413869-0-0	3		DRAWING DIRECTORY	- - - 01 02 03 03 03 IN IN
K-PL-5413869-0-DBP	3		UNIT ASSEMBLY	- - - 01 02 03 03 03 IN IN
D-CS-5413869-0-1	2		FARTS LIST	- - - 01 02 03 03 03 IN IN
			SCHEMATIC	

NOTES:	R	A	B	C	D	E	F	H	J	K	L
	E										
	I										
	S										
Y											
	D	J	S	S	O	F	S	N	J	N	S
	A	U	E	E	C	E	E	O	U	O	E
	T	W	P	P	T	B	P	V	T	N	V
	E	S	S	S	S	S	S	S	S	S	S
	D	1	2	3	4	4	4	6	6	6	7

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	CHK'D: D. JANUSKIEWICZ	DATE: 14-SEP-87	TITLE M7213 MEMORY REGULATOR		
	DES. ENG.: C. BADSTUBNER <i>CSP sb/88</i>	DATE: 14-SEP-87	SHEET 1 OF 1	EDITS 8	
	RESP. ENG.: J. ARAUJO	DATE: 14-SEP-87	DOCUMENT NUMBER		
			DD FILENAME: 5413869L.DDF		
	MFG. ENG.: A. RIVERA	DATE: 14-SEP-87	SIZE: K	CODE: DD	NUMBER: 5413869-0-0

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1	D-UD-5013369-0-0	30-13356-00		DRILL AND ETCH	1	
2	2		10-13446-25	120	PFD 50V +/- 5% NPO C	4	C12, C19-C20
3	3		10-12507-06	390	MFD 20V +100/-10% ALU	1	C30
4	4		10-13446-15	0.010MFD	50V +/-10% X7R C	5	C5, C6, C26, C29, C37
5	5		10-10274-00	0.22	MFD 50V +80/-20% Z5U C	2	C3, C9
6	6		10-12724-00	0.047MFD	50V +80/-20% Z5U C	4	C11, C17, C25, C31, C33, C34
7	7		10-11547-01	0.010MFD	400V +/-10% POLYP	2	C3, C35
8	5		10-13446-23	1000	PFD 50V +/- 5% NPO C	1	C36
9	9		10-14159-00	1000	PFD 100V +/- 1% Z00PP	1	C23
10	10		10-13446-13	330	PFD 50V +/- 5% NPO C	1	C27
11	11		10-14277-00	3300	MFD 6.3V +75/-10% ALU	2	C16, C21
12	12		10-17426-01	2700	PFD 250V +/-10% POLYP	2	C1, C2
13	13		10-C0042-00	1000	PFD 100V +/- 5% Z00PP	2	C7, C24
14	14		10-13446-20	5000	PFD 50V +/-10% X7R C	1	C10
15	15		10-11247-02	0.010MFD	600V +/-10% POLYP	1	C4
16	16		10-13446-07	220	PFD 50V +/- 5% NPO C	1	C16
17	17		10-13446-44	0.047MFD	50V +/-10% X7R C	1	C13
18	18		10-13300-00	2.2	MFD 63V +50/-20% ALU	1	C22
19	19		10-18000-01	15	MFD 25V +50/-20% ALU	1	C15
20	20		10-13446-24	47	PFD 50V +/- 5% NPO C	1	C32
21	21		11-05275-00		PIV= 60 IO=300 MA -15NS	10	C8, C16-C18, C20, C22, C24, C27, C29, CONT C30
22	22		11-12595-01		PIV= 200 IO= 1.00A AXIAL	10	D1, D3, D4, D6, D7, D9, D10, D12, D14, CONT D15
23	23		10-10975-40	0.22	MFD 50V +/-10% X7R C	1	C35
24	24		11-12595-02		PIV= 600 IO= 1.00A AXIAL	3	D2, D5, D13
25	25		11-17555-00		RECT, ULTRA FAST PIV= 150 IO= 3.0	1	D11
26	26		11-16323-00		SCHOTTKY PIV= 45 IO=30.00A	1	D23
27	27		11-09517-00		PIV= 75 IO=150 MA - 4NS 1N914B	1	D25
28	28		11-10756-00		VZ= 15.0 5% 500M2 1N5248B D	1	D26
29	29		11-17061-00		THYRISTOR, VORM= 25 MC	1	D19
30	30				*** THIS ITEM IS NOT USED ***	-	

REVISION HISTORY		EPL MODULE FORMAT		SECTION A OF ADRN: R. VACHEROT		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D:	D. JANUSKIEWICZ	TITLE	PARTS LIST
HW	INITIAL	A	[A] 00	DATE:	15-APR-88		
HW	15413869-TM001	B	[B]	DATE:	15-APR-88		
HW	15413869-TM002	C	[C]	DES. ENG:	C. BADSTUBNER		
CL	15413869-TM004	D	[D]	DATE:	15-APR-88		
RW	15413869-TM006	E	[E]	RESP. ENG.:	L. FIELD		
LF	15413869-TM007	F	[F]	DATE:	15-APR-88		
JA	15413869-TM009	J	[J]	DATE:	15-APR-88		
JA	15413869-TM009	K	[K]	DATE:	15-APR-88		
		L	[L]	DATE:	15-APR-88		
				DATE:	15-APR-88		
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
15413869		D-UA-5413869-0-0		K-00-5413869-0-0		15413869J.PLS	
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LINE	STEP	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	DO M1	REFERENCE DESIGNATORS
31	31				*** THIS ITEM IS NOT USED ***	-		
32	32		12-13426-06		HEAT SINK, TO-3 1.880X01.4	1		M1
33	33		12-17990-04		CONN, P+S 05SKT(1X06)-156CC	1		J2
34	34		12-16122-09		PCB, HEADER 10*IN(1X10)-156CC KEY	1		J3
35	35		12-17990-01		CONN, P+S 05SKT(1X06)-156CC	1		J1
36	36		13-C0279-09		100.0 .25 W 5.0 X CF	3		R36, R45, R64
37	37		13-19470-20		220.0 1.0 W 5.0 X M.OXIDE	1		R27
38	38		13-19471-21		300.0 2.0 W 5.0 X M.OXIDE	2		R1, R2
39	39		13-19470-23		330.0 1.0 W 5.0 X M.OXIDE	1		R11
40	40		13-C0316-00		470.0 .25 W 5.0 X CF	3		R19, R30, R34
41	41		13-C0365-00		1.0 K .25 W 5.0 X CF	4		R31, R35, R49, R50
42	42		13-C0447-00		4.70 K .25 W 5.0 X CF	8		R10, R23, R29, R40, R46, R62, R65, R67
43	43		13-C0475-00		10.0 K .25 W 5.0 X CF	7		R25, R37, R51, R52, R56, R66, R78
44	44		13-C0168-00		10.0 .50 W 5.0 X CF	4		R5-R7, R15
45	45		13-13244-00		221.0 X .25 W 1.0 X RN550-F10	1		R75
46	46		13-C1320-00		1.20 K .25 W 5.0 X CF	2		R53, R79
47	47		13-C2377-00		39.0 .25 W 5.0 X CF	1		R14
48	48		13-C0356-00		220.0 .50 W10.0 X CF	1		R12
49	49		13-19471-16		150.0 2.0 W 5.0 X M.OXIDE	1		R13
50	50		13-20022-01		1.50 M .25 W 1.0 X RN550-F10	1		R74
51	51		13-C2957-00		121.0 .25 W 1.0 X RN550-F10	1		R42
52	52		13-C3114-00		1.0 K .25 W 1.0 X RN550-F10	3		R17, R26, R72
53	53		13-14492-00		40.20 X .25 W 1.0 X RN550-F10	1		R35
54	54		13-C9444-00		2.70 .50 W10.0 X CF	2		R3, R4
55	55		13-14551-00		442.0 .25 W 1.0 X RN550-F10	2		R61, R63
56	56		13-C0496-00		15.0 K .25 W 5.0 X CF	1		R68
57	57		13-C2602-00		56.0 .25 W 5.0 X CF	1		R9
58	58		13-C3136-00		34.80 X .25 W 1.0 X RN550-F10	1		R24
59	59		13-13341-00		23.20 K .25 W 1.0 X RN550-F10	1		R39
60	60		13-C2177-00		47.0 K .25 W 5.0 X CF	1		R47
61	61		13-C2338-00		2.0 K .25 W 5.0 X CF	1		R20
62	62		13-C5324-00		4.40 K .25 W 1.0 X RN550-F10	2		R25, R71
63	63		13-17515-00		.04 3.0 W 3.0 X WM	1		R16
64	64		13-17532-00		1.0 .25 W 5.0 X CF	1		R8
65	65		13-C5345-00		27.0 K .25 W 5.0 X CF	2		R33, R73
66	66		13-14350-00		1.0 2.0 W10.0 X WM FUS	1		R54
67	67		13-11594-00		30.10 K .25 W 1.0 X RN550-F10	1		R18
68	68		13-12565-00		13.30 K .25 W 1.0 X RN550-F10	1		R21
69	69		13-C2456-00		100.0 K .25 W 5.0 X CF	1		R48
70	70		13-C2571-00		1.21 K .25 W 1.0 X RN550-F10	1		R32
71	71		13-16511-00		15.0 K .50 W 5.0 X CF	1		R55
72	72		13-C2376-00		470.0 K .25 W 5.0 X CF	1		R58
73	73		13-12927-00		62.0 .25 W 5.0 X CF	1		R49
74	74		13-19255-04		10.0 1.0 W 5.0 X M.OXIDE	1		R70
75	75		10-11583-C0		0.022MFD 50V +/-10% X7R C	1		C28
76	76		15-10705-00		2N 05 NPN 500MW SI 60 50 P	2		R6, R7
77	77		15-09524-00		2N 3934 NPN 310MW SI 40 40 M	1		R5
78	78		15-13459-00		2N 4401 NPN 350MW SI 40 20	1		R4
79	79		15-12790-00		D 44C12 NPN 30W SI	1		R3
80	80		15-17060-00		PJE13009 NPN 100W SI	2		R1, R2

DIGITAL				TITLE	SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
				W7213 MENCY REGULATOR			K	PL	5413869-0-BBP	J

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

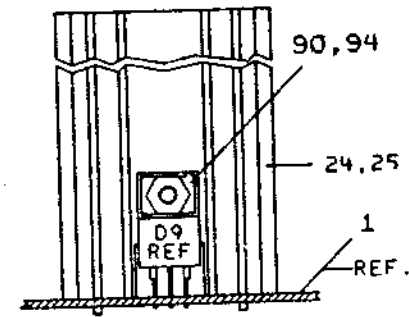
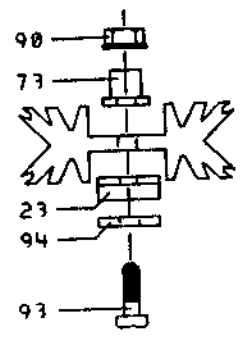
SHEET A3 OF A3

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						00		
						M1		
81	81		15-13490-00		2N 4403 PNP 350M <sub>A</sub> SI-40 30	1		08
82	82		16-17450-00		PULSE XFMR, RATIO 40:3:3:1	1		T3
83	83		16-13379-00		XFMR P=150W	1		T1
84	84		16-22012-01		XFMR, CURRENT RATIO 50:1 20-50KHZ	1		T2
85	85		16-17562-07		35.0 UH 20X 15A	1		L2
86	86		16-17657-00		200.0 UH 2A	1		L1
87	87		19-17908-00		L <sub>M</sub> 350W OP AMP DUAL LOW POME	2		E4, E6
88	88		19-16319-00		3527A MODULATOR, REGULATING	1		E1
89	89		19-17059-00		3543 P.S. SUPERVISORY CIR	1		E3
90	90		19-14156-00		L <sub>M</sub> 393 VOLT. COMPARATOR DUAL	1		E5
91	91		90-C6010-01		SCREW, MACH PAN PHIL 4-	2		
92	92		90-C6556-00		NUT, HEX 4-40X .264AF SS/M	2		
93	93		90-C6695-00		WASHER, HELICAL SPLIT SST	2		
94	94		90-C9769-00		WASHER, RECTNGLR STEEL	3		
95	95		90-C9268-00		COMPOUND, THERMAL JOINT	A/R		
96	96				*** THIS ITEM IS NOT USED ***	-		
97	97				*** THIS ITEM IS NOT USED ***	-		
98	98		90-C7301-00		WASHER, HELICAL SPLIT SST	3		
99	99		90-C8059-00		NUT, HEX SLF-LOCK NYL INS 10-32	2		
100	100		90-C6660-00		WASHER, FLAT SST	2		
101	101				*** THIS ITEM IS NOT USED ***	-		
102	102				*** THIS ITEM IS NOT USED ***	-		
103	103		90-C3957-00		NUT, HEX 6-32X .264AF SS/M	3		
104	104				*** THIS ITEM IS NOT USED ***	-		
105	105		91-C7592-02		WIRE, T <sub>1</sub> 24AWG (07/32)IPVC 150V	A/R		
106	106		19-11944-00		555CN TIMER, FUNCT. BLOCK	1		E2
107	107		13-14951-00		390.0 K .25 W 5.0 X CF	1		R22
108	108		12-13375-00		CERAMIC DIP, 24 LEAD (GOLD-GOLD-G)	1		S1
109	109		12-15228-01		HEAT SINKS, TO-220 0.920X0.87	2		H2, H3
110	110		90-C9675-00		TERM, SOLDER BARRIER STR	1		U7
111	111		11-14334-00		LED 105M 35MA GREEN	1		D31
112	112		12-15228-02		HEAT SINKS, TO-220 01.25X0.87	1		H4
113	113		13-C5421-00		35.70 K .25 W 1.0 X RN550-F10	1		R44

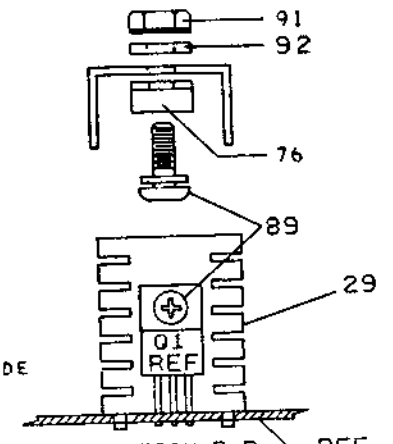
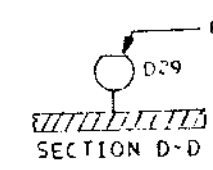
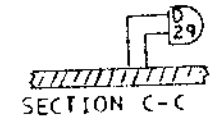
DIGITAL				TITLE	SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
				47213 MEMORY REGULATOR			K	PL	5413869-D-B9P	J

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—TOP VIEW—

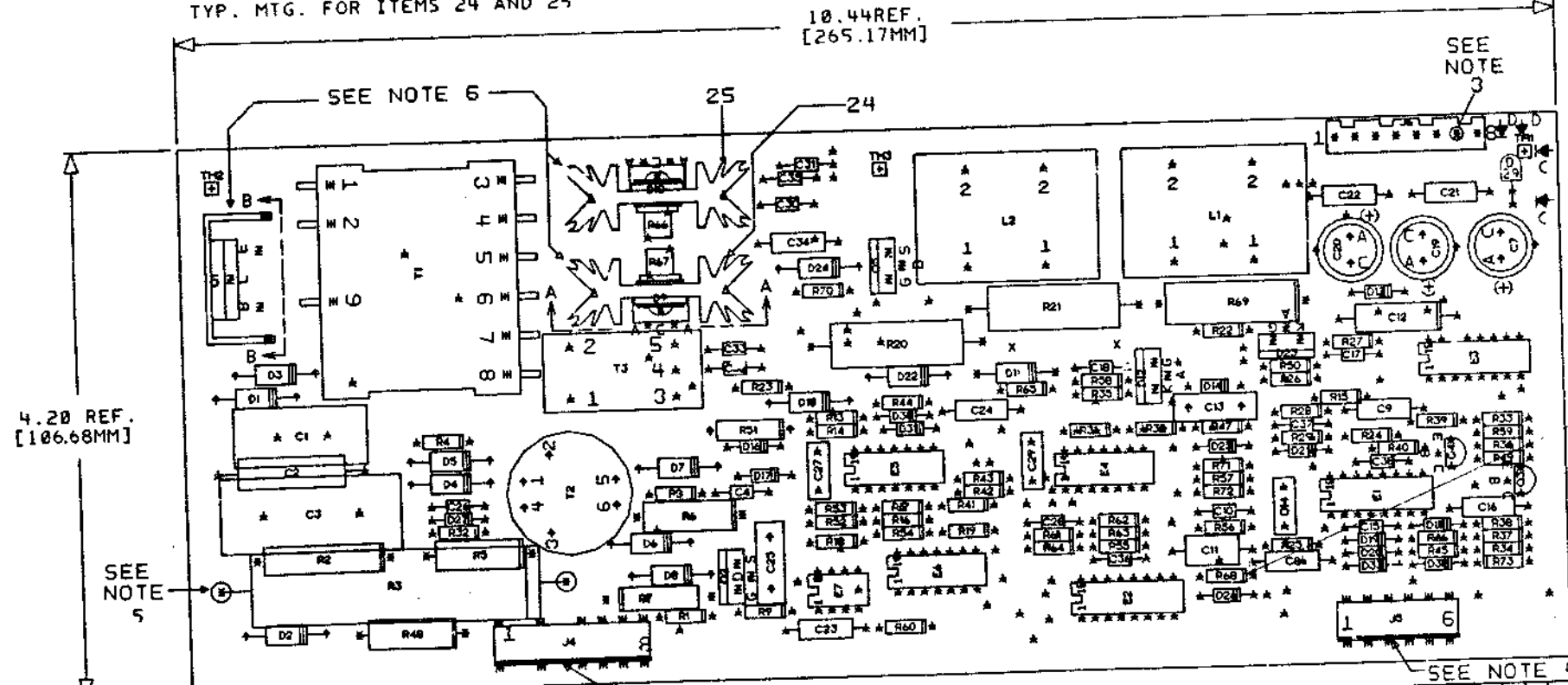


SECTION A-A  
TORQUE SCREW  
6 IN/LBS ±10%  
TYP. MTG. FOR ITEMS 24 AND 25



SECTION B-B  
TORQUE SCREW  
8 IN/LBS ±10%

COMPONENT SIDE VIEW



CHK	DRAWN BY	ENGINEER	CHANGE NO.	DATE	REV.
DB	P. LINDEN	D. CALDERAN	540580-0-0	7-75	E

CHK	DRAWN BY	ENGINEER	CHANGE NO.	DATE	REV.

NOTES: 1. THIS BOARD MEETS REQUIREMENTS FOR 1A RATING POWER.  
2. E2 IS A SPARE I.C.  
3. REMOVE PIN 7 OF J6 PRIOR TO INSERTION.  
4. DARK SIDE OF CONNECTOR J4 IS.  
5. USE SPACERS (ITEM 93) TO RAISE R3 OFF P.C. BOARD, 2 PLACES.  
STEP E → Y AXIS STEP TIMES  
REPEAT → X AXIS STEP TIMES

6. 01D1D9 MUST BE MOUNTED TO HEATSINK BEFORE BEING ATTACHED TO P.C. BOARD.

SIGNATURES	DATE
DRN. M. McDONOUGH	7-75
CHK. D. R. BARRIÈRE	7-75
MECH. ENG. D. CALDERAN	7-75
PROJ. ENG. D. CALDERAN	7-75
PROD. J. ARAUJO	7-75

digital  
TITLE H7217 FCC  
±15V EXPANDER  
SIZE CODE NUMBER REV  
D UA 5415580-0-0 H

SCALE 2:1  
SMT 1 OF 1  
TOP DOC. NO. K-00-5415580-0-0  
MK0 1 WJ# 1139



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REWORK INSTRUCTIONS

COMPONENT DELETE:  
5-1 DELETE PART NUMBER 1302398-00 (R68)

COMPONENT ADD:  
5-2 ADD PART NUMBER 1309595-00 (R69)

REVISION HISTORY		
REV	ECC NUMBER	DATE

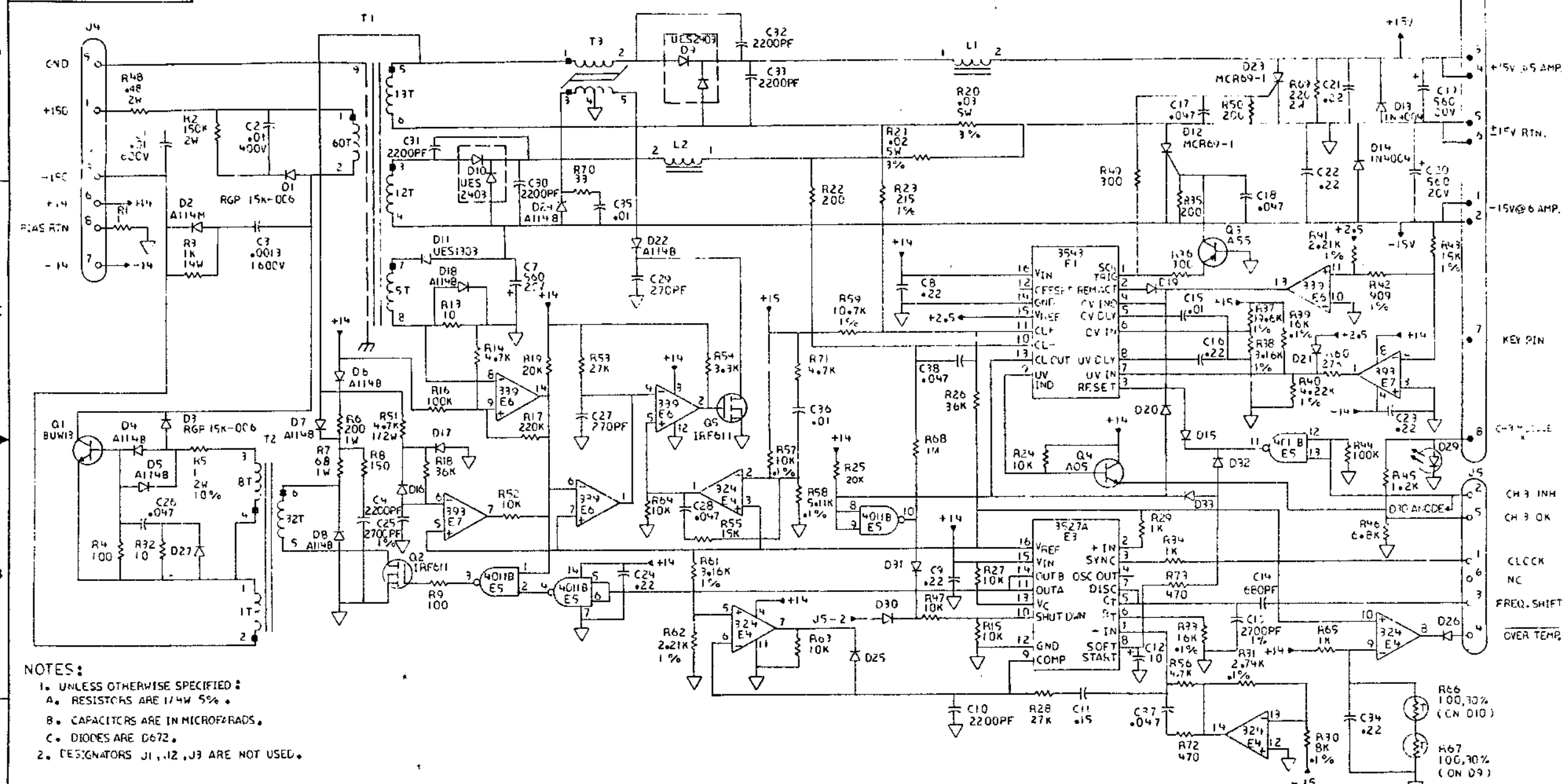
TITLE: AT&T FCC  
+IS, E, PALDER

SIZE CODE	DOCUMENT NUMBER	REV
D	2-108-2-2-2	H
SCALE	DATE	SHEET

MKO 1

8 7 6 5 4 3 2 1

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- NOTES:
- UNLESS OTHERWISE SPECIFIED:
    - RESISTORS ARE 1/4W 5%.
    - CAPACITORS ARE IN MICROFARADS.
    - DIODES ARE D672.
  - DESIGNATORS J1, J2, J3 ARE NOT USED.

REV	DATE	BY	CHKD	DESCRIPTION
1				
2				
3				
4				
5				
6				
7				
8				

DATE	BY	CHKD	TITLE
11/27/71	J. Angelo		117217 ±15V FCC EXPANDER
12/22/71	J. Angelo		
1/12/72	J. Angelo		
2/1/72	J. Angelo		
2/22/72	J. Angelo		
3/1/72	J. Angelo		
3/1/72	J. Angelo		
3/1/72	J. Angelo		
3/1/72	J. Angelo		

DOCUMENT NUMBER: DCS15415580-C-1

REV: 1

8 7 6 5 4 3 2 1

DRAWING NO.	NO. SHTS	PART NO.	DESCRIPTION	REVISIONS											
		5415580-01	PART REVISIONS	A1	B1	B2	C1	D1	E1	E1					
D-UA-5415580-0-0	2		H7217 + - 15V FCC EXPANDER	A1	B1	C	D	E	F	H					
D-CS-5415580-0-1	31		H7217 + - 15V FCC EXPANDER	A	B	B	C	D	E	E					
K-PL-5415580-0-02P	13		H7217 + - 15V FCC EXPANDER	A	9N	C	D	E	F	H					
K-PC-5415580-0-02A			PC DESIGN DATA BASE	A	A	A	A	B	3	3					
K-DD-5015577-0-0	1		DRAWING DIRECTORY	A	A	A	A	B	B	-					
K-DD-5015579-0-0	1		DRAWING DIRECTORY	-	-	-	-	-	-	C					
NOTES:				A B C D E F H											
				R E V											
				R E V I S I O N	E	I	T	T	T	T	L	M			
				I O R Y	O	I	O	O	O	O	O	O			
				N	1	2	3	4	5	6					
				D	0	0	0	0	0	0	1				
				A	7	3	5	7	9	3	2				
				T	/	/	/	/	/	/	/				
				S	8	3	8	3	8	8	8				
					4	5	5	5	5	5	6				
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				CHK'D: T. WALSH <i>T. Walsh</i>				DATE: 11-DEC-86 <i>12-27-86</i>		TITLE H7217 FCC +/- 15V EXPANDER					
				DES. ENG.: C. BADSTUBNER <i>C. Badstuber</i>				DATE: 11-DEC-86		SHEET 1 OF 1			EDIT: 3		
				RESP. ENG.: C. BADSTUBNER <i>C. Badstuber</i>				DATE: 11-DEC-86		DOCUMENT NUMBER					
				MFG. ENG.: ANGEL RIVERA				DATE: 11-DEC-85		DD FILENAME: 5415580H.DDF					
								SIZE		CODE		NUMBER		REV	
								K		DD		5415580-0-0		H	

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						01		
						E1		
1	1	D-MD-5015579-0-0	50-15579-01		CIRCUIT DRILL & ETCH	1		
2	2		10-00022-00		270 PFD 100V +/- 5% 200PP	2		C27,C29
3	3		10-00026-00		680 PFD 100V +/- 5% 200PP	1		C14
4	4		10-01610-00		0.010MFD 50V +80/-20% Z5U C	3		C15,C35,C36
5	5		10-10031-00		0.15 MFD 50V +/-10% M.POL	1		C11
6	6		10-11847-02		0.010MFD 600V +/-10% POLYP	1		C1
7	7		10-12607-00		560 MFD 20V +100/-10% ALU	3		C7,C19,C20
8	8		10-12794-00		0.047MFD 50V +80/-20% Z5U C	6		C17,C18,C26,C28,C37,C38
9	9		10-13203-00		0.010MFD 400V +/-10% M.POL	1		C2
10	10		10-13466-11		0.22 MFD 50V +80/-20% Z5U C	8		C8,C9,C16,C21-C24,C34
11	11		10-13466-12		2200 PFD 50V +/-10% X7R C	6		C4,C10,C30-C33
12	12		10-14170-00		2700 PFD 100V +/- 1% 70PP	2		C13,C25
13	13		10-15202-03		1300 PFD 1600V +/-10% POLYP	1		C3
14	14		10-17472-00		10 MFD 35V +75/-10% ALU	1		C12
15	15		11-05275-00		PIV= 60 IO=300 MA -15NS	13		D15-D17,D19-D21,D25-D27,D30-D33
16	16		11-05796-00		PIV= 400 IO= 1.00A 1M4004 DO-41	2		D13,D14
17	17		11-14384-00		LED 105Mw 35MA GREEN	1		D29
18	18		11-12595-01		PIV= 200 IO= 1.00A AXIAL	8		D4-D8,D18,D22,D24
19	19		11-12595-02		PIV= 600 IO= 1.00A AXIAL	1		D2
20	20		11-15112-00		RECT,ULTRA FAST PIV= 800 IO= 1.0	2		D1,D3
21	21		11-15272-00		RECT,ULTRA FAST PIV= 150 IO= 6.0	1		D11
22	22		11-17061-00		THYRISTOR, VDRM= 25 MC	2		D12,D23
23	23		11-17555-00		RECT,ULTRA FAST PIV= 150 IO= 3.0	2		D9,D10
24	24		12-13921-12		HEAT SINK, EXTRUSION 1.380X1.00	1		
25	25		12-13921-13		HEAT SINK, EXTRUSION 1.380X1.50	1		
26	26		12-16122-12		PCB, HEADER 28PIN(1X08).156CC KEY	1		J6
27	27		12-17990-02		CONN,P+S 08SKT(1X06).156CC	1		J4
28	28		12-17990-04		CONN,P+S 06SKT(1X06).156CC	1		J5
29	29		12-18419-00		HEAT SINKS, TO-220 1.000X01.1	1		
30	30		13-00197-00		33.0 .25 W 5.0 % CF	1		R70
31	31		13-00229-00		100.0 .25 W 5.0 % CF	2		R4,R9
32	32		13-00250-00		150.0 .25 W 5.0 % CF	1		R8

REVISION HISTORY			KPL MODULE FORMAT SECTION A OF A		DRN: J. LIZOTTE		DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE	CHK'D	TITLE	DOCUMENT NUMBER	SIZE	CODE
DC	INITIAL	A	[A] 01	23-MAR-84	D. BARRIERE	H7217 +- 15V FCC EXPANDER			
DC	5415580-TW001	B	[B]	25-JUN-84	<i>Shawn F. Wall 12-22-86</i>				
DC	5415580-TW002	C	[C]		D. CALDERAN				
DC	5415580-TW003	D	[D]	23-MAR-84					
DC	5415580-TW004	E	[E]						
JA	5415580-LK005	F	[F]		D. CALDERAN				
CB	5415580-K006	H	[H]	23-MAR-84					
			[J]						
			[K]		V. MITCHELL				
			[L]	23-MAR-84					
			[Y]						
			BASIC PART NUMBER:	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
			5415580	D-UA-5415580-0-0	K-DD-5415580-0-0	5415580H.PLS	1		

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AUTOMATED BY VAKKPL (V1.3)

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
33	33		13-00316-00	470.0	.25 W 5.0 X CF	2	R72,R73
34	34		13-00365-00	1.0 K	.25 W 5.0 X CF	3	R29,R34,R65
35	35		13-00439-00	3.30 K	.25 W 5.0 X CF	1	R54
36	36		13-00445-00	4.70 K	.50 W 5.0 X CF	1	R51
37	37		13-00447-00	4.70 K	.25 W 5.0 X CF	3	R14,R56,R71
38	38		13-00479-00	10.0 K	.25 W 5.0 X CF	7	R15,R24,R27,R47,R52,R63,R64
39	39		13-00496-00	15.0 K	.25 W 5.0 X CF	1	R55
40	40		13-01317-00	10.0	.25 W 5.0 X CF	2	R13,R32
41	41		13-01320-00	1.20 K	.25 W 5.0 X CF	1	R45
42	42		13-01423-00	6.80 K	.25 W 5.0 X CF	1	R46
43	43		13-01425-00	300.0	.25 W 5.0 X CF	2	R36,R49
44	44		13-02092-00	220.0 K	.25 W 5.0 X CF	1	R17
45	45		13-09595-00	1.0 M	.25 W 5.0 X CF	1	R68
46	46		13-02466-00	100.0 K	.25 W 5.0 X CF	2	R16,R44
47	47		13-02685-00	3.16 K	*** THIS ITEM IS NOT USED ***	-	
48	48		13-03045-00	3.16 K	.25 W 1.0 X RN55D-F10	2	R38,R61
49	49		13-05123-00	215.0	.25 W 1.0 X RN55D-F10	1	R23
50	50		13-05346-00	27.0 K	.25 W 5.0 X CF	3	R28,R53,R60
51	51		13-05356-00	8.0 K	.25 W 0.10X RN55C-B	5	R30
52	52		13-05431-00	10.0 K	.25 W 0.1 X RN55E-B	2	R57
53	53		13-05432-00	5.11 K	.25 W 0.1 X RN55E-B	2	R58
54	54		13-19470-10	68.0	1.0 W 5.0 X M.OXIDE	1	R7
55	55		13-09419-00	19.60 K	.25 W 1.0 X RN55D-F10	1	R37
56	56		13-10631-00	2.21 K	.25 W 1.0 X RN55D-F10	2	R41,R62
57	57		13-10876-00	.02	5.0 W 3.0 X WW	1	R21
58	58		13-10876-01	.03	5.0 W 3.0 X WW	1	R20
59	59		13-11522-00	200.0	.25 W 5.0 X CF	3	R22,R35,R50
60	60		13-12924-00	10.70 K	.25 W 1.0 X RN55D-F10	1	R59
61	61		13-12932-00	36.0 K	.25 W 5.0 X CF	2	R18,R26
62	62		13-13076-00	16.0 K	.25 W 0.1 X RN55E-B	2	R33,R39
63	63		13-13752-00	15.0 K	.25 W 1.0 X RN55D-F10	1	R43
64	64		13-14350-00	1.0	2.0 W 10.0 X FUSE	1	R5
65	65		13-14350-04	.47	2.0 W 5.0X FLAMEPROO	1	R48
66	66		13-17390-00	2.74 K	.25 W 0.1 X RN55E-B	2	R31
67	67		13-17398-00	4.22 K	.25 W 1.0 X RN55D-F10	1	R40
68	68		13-17522-00	1.0	.25 W 5.0 X CF	1	R1
69	69		13-18039-00	1.0 K	14.0 W 5.0 X WW	1	R3
70	70		13-19470-19	200.0	1.0 W 5.0 X M.OXIDE	1	R6
71	71		13-19471-19	220.0	2.0 W 5.0 X M.OXIDE	1	R69
72	72		13-19471-45	150.0 K	2.0 W 5.0 X M.OXIDE	1	R2
73	73		13-21270-01		THERMISTOR PTC 100 30X	2	R66,R67
74	74		15-10705-00	XA 05	NPN 500MW SI 60 50 P	1	Q4
75	75		15-10706-00	XA 55	PNP 500MW SI 60 50 P	1	Q3
76	76		15-20265-01	BUV 46A	NPN 150W 450V 15A	1	Q1
77	77		15-21424-01		FET 150V 2A N-CHNML	2	Q2,Q5
78	78		16-20576-01		PULSE XFMR,33KHZ RATIO=1:8:32	1	T2
79	79		16-21222-01		325.0 UH 6A FILTER INDUCTOR	2	L1,L2
80	80		16-21223-01		XFMR P=360V S=15VA 6ADC 33KHZ	1	T1
81	81		16-22792-01		MAGNETIC AMPLIFIER,33KHZ,6A	1	T3
82	82		19-12107-30		LN 324 BURNED-IN OP AMP,QUA	1	E4

D I G I T A L		TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
		H7217 +- 15V FCC EXPANDER		K	PL	5415580-0-DBP	H

AUTOMATED BY VAKKPL (V1.3)

P A R T S L I S T

SHEET A3 OF A3

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
83		19-12108-80		339 BURNED-IN VOLT CMPRT	1	E6
84		19-14156-80	LM	393 BURNED-IN VOLT COMPA	1	E7
85	SEE NOTE # 85	19-16819-00		3527A MODULATOR,REGULATING	REF	
86		19-16819-80		3527A MODULATOR,REGULATING	1	E3
87		19-17059-00		3543 P.S. SUPERVISORY CIR	1	E1
88		21-17883-00		40118 NAND GATE,QUAD BUFFE	1	E5
89		90-00049-03		SCREW,SEMS TRUSS PHIL 6-	1	
90		90-06557-00		NUT,HEX EXT TOOTH LCKMSHR 4-40	2	
91		90-06560-00		NUT,HEX EXT TOOTH LCKMSHR 6-32	1	
92		90-06653-00		WASHER,FLAT STEEL	1	
93		90-09643-00		SCREW,SEMS PAN PHIL 4-	2	
94		90-09769-00		WASHER,RECTNGLR STEEL	2	
95		90-09798-00		SPACER,CLEAR HOLE RND CERAM .07	2	
96	SEE NOTE # 96	91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	
97		13-02391-00		20-0 K .25 W 5.0 X CF	2	R19,R25

85 NOTE: ITEM 85 IS OPTIONAL P/N 1916819-00 CAN BE SUBSTITUTED FOR ITEM 87 P/N 1916819-80.  
 96 NOTE: ITEM 86 WILL HAVE A QUANTITY OF 0.86 FEET.

D I G I T A L		TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
		H7217 +- 15V FCC EXPANDER		K	PL	5415580-0-DBP	H

NOTES:  
1. THIS BOARD MEETS THE REQUIREMENTS FOR THE TYPE HPWB.  
2. REMOVE J29-B BEFORE INSERTION.  
3. USE TABLE 'A' AND DESIGNATORS W1-W8 FOR SOLDERING CABLE HARNESS ON THE HPWB BOARD.  
4. J28 IS MOUNTED ON SIDE 2.

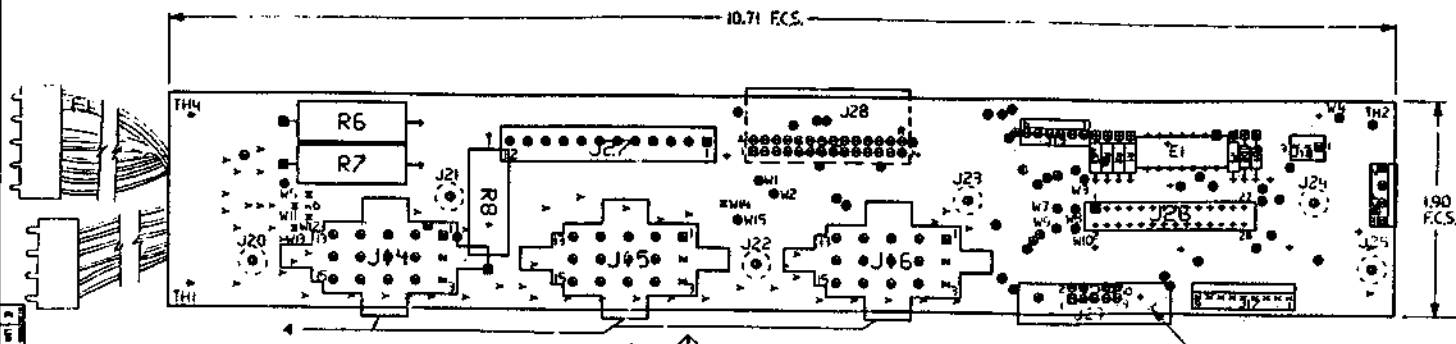
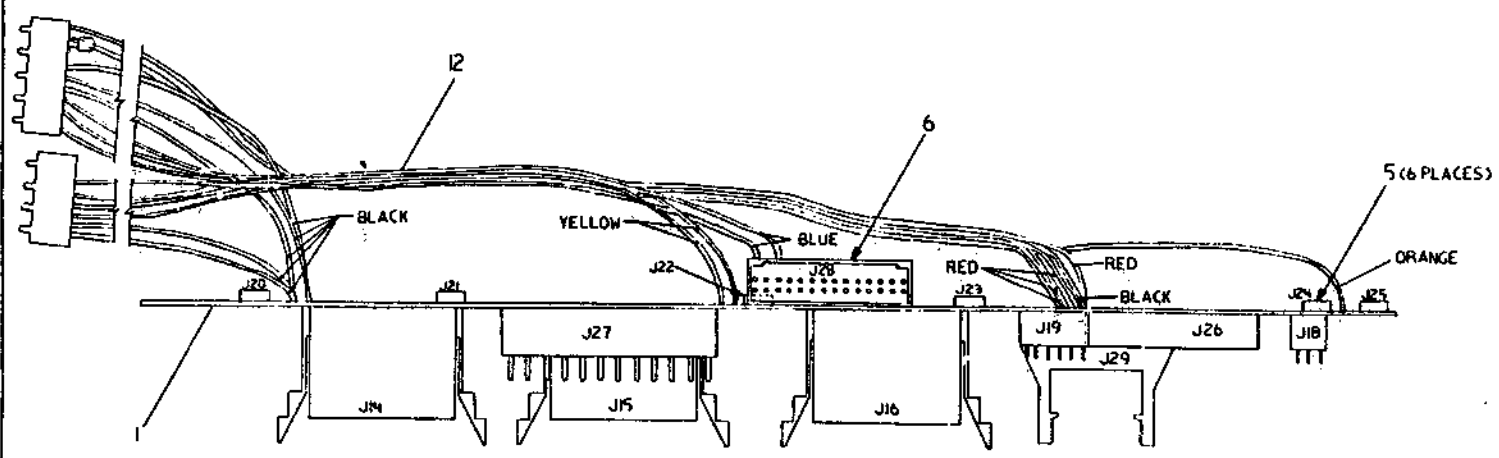


TABLE A (SEE NOTE 2)

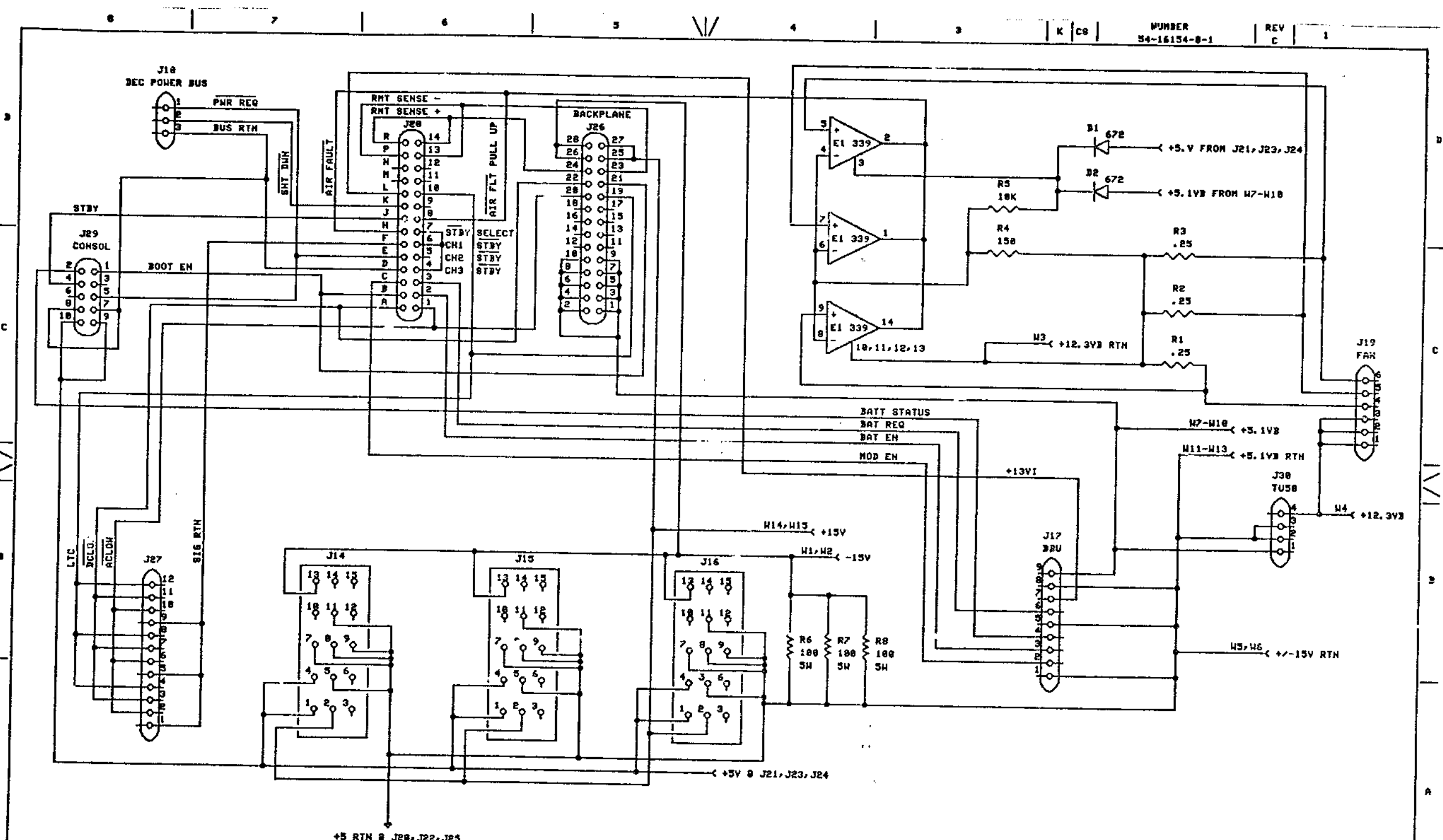
DESIGNATORS	WIRE COLOR	REMARKS
W1-W2	BLUE	+J5Y
W3	BLACK	+J2.1Vd RIN
W4	ORANGE	+J2.3Vd
W5-W6	BLACK	+J5Y RIN
W7-W8	RED	+J5Y
W9-W10	BLACK	+J5.1Vd RIN
W11-W12	YELLOW	+J5Y

NOTES:  
1. THIS BOARD MEETS THE REQUIREMENTS FOR THE TYPE HPWB.  
2. REMOVE J29-B BEFORE INSERTION.  
3. USE TABLE 'A' AND DESIGNATORS W1-W8 FOR SOLDERING CABLE HARNESS ON THE HPWB BOARD.  
4. J28 IS MOUNTED ON SIDE 2.

CHK	DRWN BY	ENGINEER	CHANGE NO	DATE	REV
		WILLIAM E	11022	9/28/51	C

SIGNATURES		DATE
DESIGNER		
CHK'D		
MECH. ENG.		
PROJ. ENG.		
PROD.		
SCALE	2/1	
SHT.	1 OF	
NEXT HIGHER REV.	R IN SHT. 2	

TITLE: DIGITAL DISTRIBUTION BOARD



CHK	CHANGE NO	REV
NR	5416154-TM2	C

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PAGE 1 OF 1  
TOP DOC 8-DD-5416154-8

DRN BY THOCAD GROUP  
CHK BY BOB WILLIAMS  
ENG DAVID CALBERON

DATE 89-APR-85  
DATE 89-APR-85  
DATE 89-APR-85

TITLE POWER DISTRIBUTION BOARD(688)  
NUMBER 54-16154-8-1  
REV C

PDB1.DRAW



DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																			
				A1	B2	C1																	
		5416154-01	PART REVISION																				
E-UA-5416154-0-0	2		UNIT ASSEMBLY	A	B	C																	
K-PL-5416154-0-DBP	1		PARTS LIST	A	B	C																	
K-PC-5416154-0-DBV	-		PC DATA BASE	C	C	D																	
K-CS-5416154-0-DBF	-		POWER DIST. BOARD (SBB)	A	B	C																	
B-DD-5016153-0-0	1		DRAWING DIRECTORY	A	B	C																	
K-CS-5416154-0-1	1		POWER DIST. BOARD	A	B	C																	

**NOTES:**

REVISION HISTORY		DATE	ECO NO.	REV.
	INIT	8/84		A
	TW001	3-14 85		B
	TW002	9/85		C

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USED ON OPTION/MODEL		DRN. <i>S. Mansel</i>	DATE 8-7-84	TITLE <b>POWER DIST. BOARD</b>
		CHK'D <i>J. Marofalo</i>	DATE 8-16-84	
		DES. ENG. <i>David E. Calabrese</i>	DATE 8-16-84	DOCUMENT NUMBER
		RESP. ENG. <i>David E. Calabrese</i>	DATE 8-16-84	SIZE CODE NUMBER REV.
		MFG. ENG. <i>Walter M. O'Leary</i>	DATE 5-16-84	<b>B DD</b> 5416154-0-0 <b>C</b>
			SHEET 1 OF 1	

TW

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1		50-16153-01		ETCH CUT BOARD	1	
2	2	BLANK			*** THIS ITEM IS NOT USED ***	-	
3	3		12-09350-15		MATE-N-LOK 15SKT(3X05).240CC HSG	3	J14-J16
4	4		12-09456-01		MATE-N-LOK 01SKT 20-18AWG .0870D	45	
5	5		12-14809-01		INSERT,W/O INTERNAL THREADS,THRU	6	J20-J25
6	6		12-16122-01		PCB,HEADER 07PIN(1X07).156CC KEY	1	J28
7	7		12-16652-00		PCB,HEADER 12PIN(1X12).156CC STR	1	J27
8	8		12-18243-01		PCB HEADER 04PIN(1X04).100CC STR	1	J30
9	9		13-00479-00		10.0 K .25 W 5.0 % CF	1	R5
10	10		13-00250-00		150.0 .25 W 5.0 % CF	1	R4
11	11		13-22891-01		.25 .25 W 5.0 % 20	3	R1-R3
12	12		17-00633-01		CABLE ASSY,17COND 18-20AWG W/CON	1	
13	13		19-12108-80		339 BURNED-IN VOLT CMPRT	1	E1
14	14		12-18243-00		PCB HEADER 03PIN(1X03).100CC STR	1	J18
15	15		12-18243-05		PCB HEADER 09PIN(1X09).100CC STR	1	J17
16	16		12-11004-00		PCB,HEADER 28SKT(2X19).100CC	1	J26
17	17		11-05275-00		PIV= 60 IO=300 MA -15NS	2	D1,D2
18	18		12-15341-01		PCB HEADER 10PIN(2X05).100CC STR	1	J29
19	19		12-18243-03		PCB HEADER 06PIN(1X06).100CC STR	1	J19
20	20		13-22542-01		100.0 5.0 W 3.0 % WW	3	R6-R8
21	21		91-05740-55		WIRE(WRAP) 30AWG KYNAR UL14 A/R		

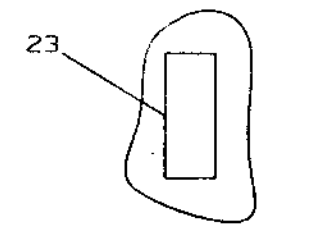
- 1 GEN: 1.ITEM #4,PART #1209456-01 GOES WITH PART #1209350-01.
- 2 GEN: 2.ITEM #12,PART #17-EWS-00 IS 18 AWG WIRE.
- 3 GEN: 3.ITEM #21 WILL HAVE A QUANTITY OF 0.92 FEET.

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A		DRN: S.MANSOR		DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE:	16-FEB-84						
---	INITIAL	A	(A)	01	(M)	CHK'D:	E.T.GERRY		TITLE PARTS LIST			
DC	5416154-TW001	B	(B)		(N)	DATE:	16-FEB-84		LEM DISTRIBUTION BD. SBB			
DC	5416154-TW002	C	(C)		(P)	DES.ENG:	D.CALDERAN		DOCUMENT NUMBER			
			(D)		(Q)	DATE:	16-AUG-84		SIZE	CODE	NUMBER	REV
			(E)		(R)	RESP.ENG.:	D.CALDERAN		K	PL	5416154-0-DBP	C
			(F)		(S)	DATE:	16-AUG-84		RELEASE DATE: 24-MAR-86			
			(H)		(T)			RELEASE STATUS: RELEASED				
			(J)		(V)							
			(K)		(W)							
			(L)		(Y)							
			BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			5416154		E-UA-5416154-0-0		B-DD-5416154-0-0		TW076C.PLS		4	

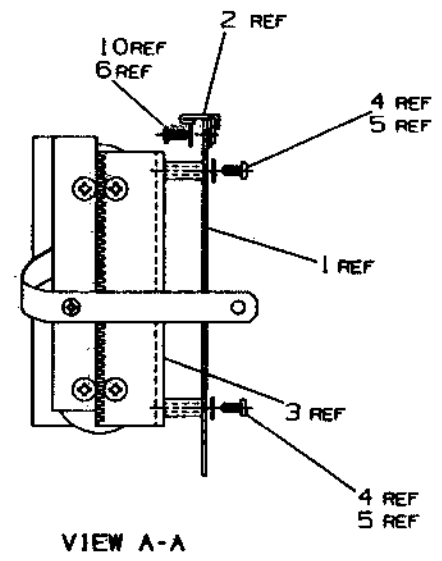
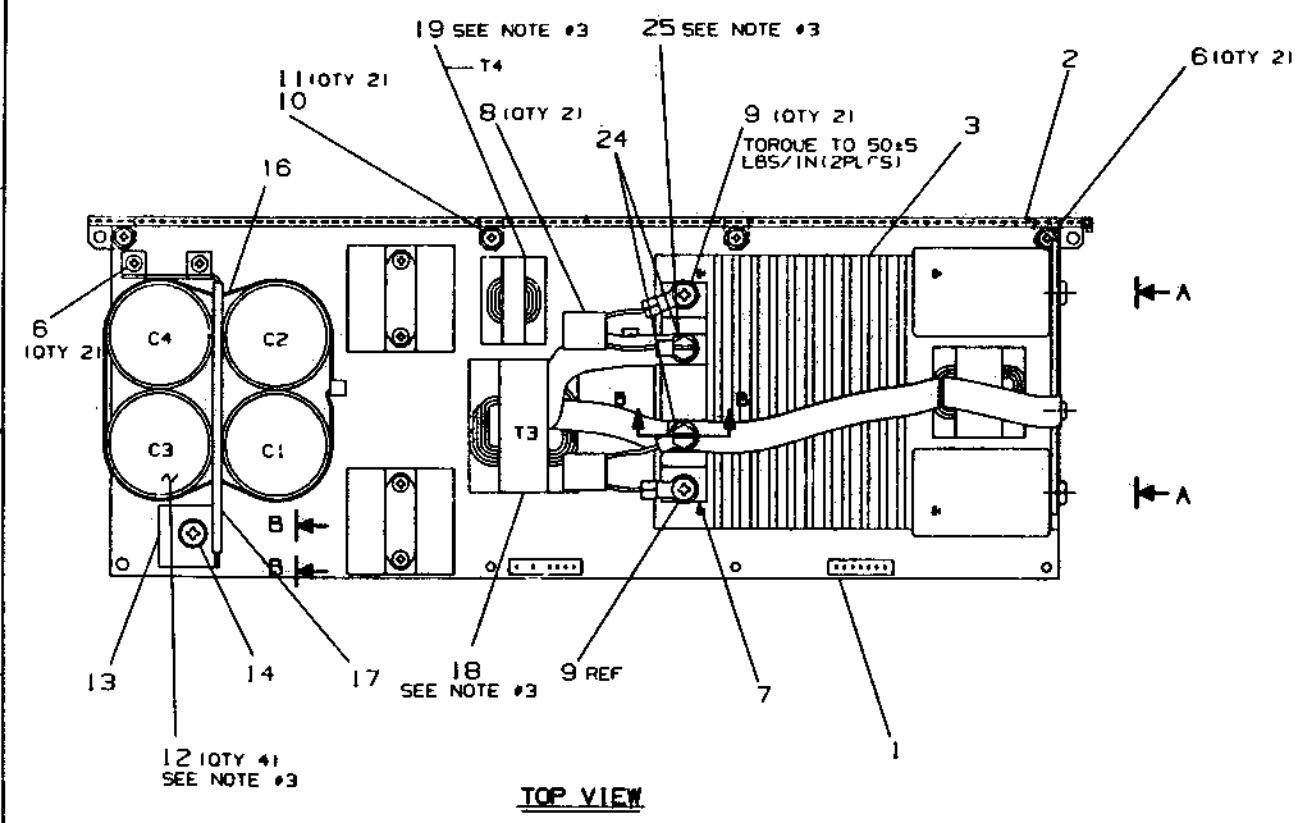
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LEGEND		
PART NO	REV	VARIATION
H7203-A	01	AS SHOWN

- NOTES:
1. LOCATE LABEL ITEM #23 APPROX AS SHOWN.
  2. UNLESS OTHERWISE NOTED TORQUE ALL SCREWS PER A-SP-7665328-0-0.
  3. REFER TO 54-16120-0-0 FOR THE LOCATION OF ITEMS 12, 18, 19, 20, 21 & 22.
  4. ITEM #25, TO BE USED ON ITEM #7 AT ZONE E6 ONLY.



VIEW B-B  
LOCATE LABEL ON ITEM #13 APPROX AS SHOWN

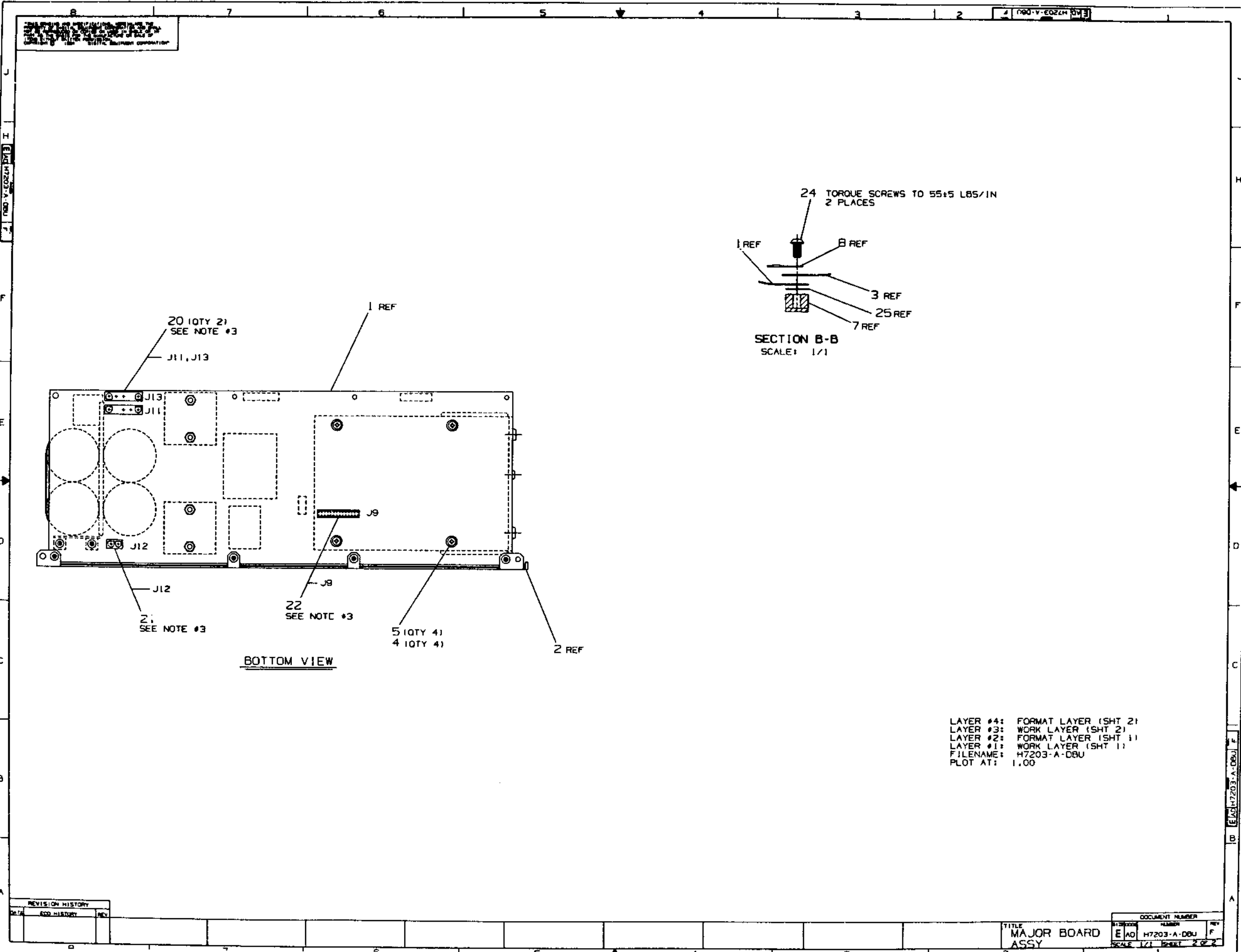


LAYER #4: FORMAT LAYER (SHT 21)  
 LAYER #3: WORK LAYER (SHT 21)  
 LAYER #2: FORMAT LAYER (SHT 11)  
 LAYER #1: WORK LAYER (SHT 11)  
 FILENAME: H7203-A-DBU  
 PLOT AT: 1.00

CAUTION: FOR OFF SHEET PARTS LIST, REFER TO K-PL-H7203-A-DBP, (29121).

REV	DATE	BY	CHKD	APP'D
01	11/11/82	L. BOURGALT	A. PERRY	
02	11/11/82	A. PERRY		
03	11/11/82	V. MITCHELL		
04	11/11/82			
05	11/11/82			
06	11/11/82			
07	11/11/82			
08	11/11/82			
09	11/11/82			
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22	11/11/82			
23	11/11/82			
24	11/11/82			
25	11/11/82			

DESCRIPTION	QUANTITY	UNIT	REVISION	DATE	BY	CHKD	APP'D
MAJOR BOARD ASSY	1	PCB	01	11/11/82	L. BOURGALT	A. PERRY	
SEE PARTS LIST							
FINISH	NONE						



H7203-A-DBU  
 H7203-A-DBU  
 H7203-A-DBU

J  
 I  
 H7203-A-DBU  
 F  
 E  
 D  
 C  
 B  
 A

J  
 H  
 F  
 E  
 D  
 C  
 B  
 A

20 (QTY 2)  
 SEE NOTE #3  
 J11, J13

1 REF

2  
 SEE NOTE #3  
 J12

22  
 SEE NOTE #3  
 J9

5 (QTY 4)  
 4 (QTY 4)

2 REF

BOTTOM VIEW

24 TORQUE SCREWS TO 55±5 LBS/IN  
 2 PLACES

1 REF

8 REF

3 REF

25 REF

7 REF

SECTION B-B  
 SCALE: 1/1

LAYER #4: FORMAT LAYER (SHT 2)  
 LAYER #3: WORK LAYER (SHT 2)  
 LAYER #2: FORMAT LAYER (SHT 1)  
 LAYER #1: WORK LAYER (SHT 1)  
 FILENAME: H7203-A-DBU  
 PLOT AT: 1,00

REVISION HISTORY		
DATE	ADD HISTORY	REV

TITLE  
 MAJOR BOARD  
 ASSY

DOCUMENT NUMBER	
NUMBER	REV
H7203-A-DBU	F
SCALE: 1/1	SHEET: 2 OF 2

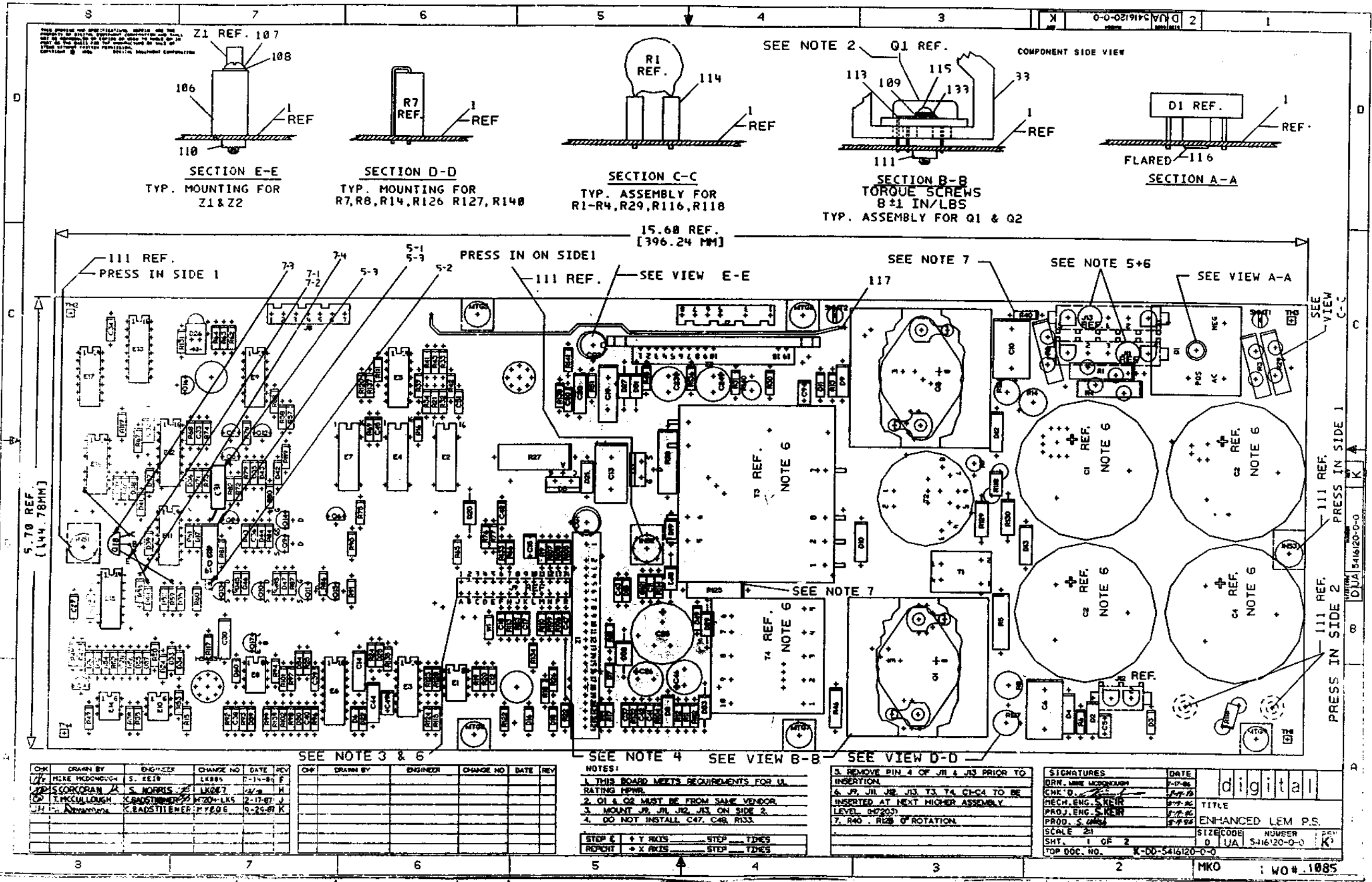
H7203-A-DBU  
 F

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1	E-UA-5416120-0-0	54-16120-01	J	ENHANCED LEM P.S	1	
2	2	D-IA-7429748-0-DBU	74-29748-01		BRACKET, MOTHER BOARD	1	
3	3	D-AD-7021667-0-DBU	70-21667-01		HEAT SINK ASSY.	1	
4	4		90-09701-00		SCREW, SEMS PAN PHIL 6-	4	
5	5		90-06656-00		WASHER, FLAT STEEL	4	
6	6		90-10174-00		SCREW, SEMS PAN PHIL 6-	4	
7	7		11-20811-01		SCHOTTKY PIV= 50 IO=200.0A	1	
8	8	B-IA-7021668-0-DBU	70-21668-01		SNUBBER ASSY.	2	
9	9		90-06056-01		SCREW, MACH PAN PHIL 1/4-	2	
10	10		90-06659-00		WASHER, FLAT S/PAS	1	
11	11		90-09984-02		SCREW, SEMS PAN PHIL 6-	2	
12	12		10-22889-01		3000 MFD 200V +75/-10% ALU	4	C1-C4
13	13	C-MD-7430094-0-DBU	74-30094-01		BRACKET, CAPACITOR	1	
14	14		90-09282-00		SCREW, SEMS PAN PHIL 10-	1	
15	15		90-06664-00		*** THIS ITEM IS NOT USED ***	-	
16	16		90-10006-00		TIE, CABLE BUNDL, DIA -4" TYPE=101	1	
17	17	#SEE NOTE	90-07035-00		GROMMET, CATERPILLAR POLYAMIDE	A/R	
18	18		16-22685-01		XFMR, OUTPUT POWER, 33KHZ, 200-380V	1	T3
19	19		16-23371-01		XFMR, POWER 33KHZ P=200-370V	1	T4
20	20		12-12297-13		MATE-N-LOK 05PIN(1X05), 250CC HDR	2	J11, J13
21	21		12-12297-00		MATE-N-LOK 02PIN(1X02), 250CC HDR	1	J12
22	22		12-11004-00		PCB, HEADER 28SKT(2X19), 100CC	1	J9
23	23		90-09255-03		LABEL, P.S./SUB, ASSY ID	1	
24	24		90-09988-00		SCREW, SEMS HEX SLOT 1/4-	2	
25	25		90-06646-00		WASHER, FLAT SST	1	

1 GEN: ITEM #17 TO BE 4.25" LONG.

REVISION HISTORY			KPL MODULE FORMAT		SECTION A OF A	DRN: S. CORCORAN	D I G I T A L				
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 14-JAN-87	T. MCCULLOUGH					
---	INITIAL	A	{A}	A	{M}	DATE: 14-JAN-87	TITLE PARTS LIST				
AP	H7204-TW001	B	{B}		{N}	DATE: 14-JAN-87	MAJOR BOARD ASSEMBLY				
AP	H7203-TW001	C	{C}		{P}	DES. ENG: A. PERRY					
SN	H7203-A-LK001	D	{D}		{Q}	DATE: 30-AUG-84	DOCUMENT NUMBER				
SN	H7204-LK004	E	{E}		{R}	RESP. ENG.: MAN W. CHOW	SIZE	CODE	NUMBER	REV	
CB	H7204-LK005	F	{F}		{S}	DATE: 30-AUG-84	K	PL	H7203-A-DBP	F	
			{H}		{T}	MFG. ENG: V. MITCHELL	RELEASE DATE: 05-MAR-87				
			{J}		{V}	DATE: 30-AUG-84	RELEASE STATUS: RELEASED				
			{K}		{W}						
			{L}		{Y}						
			BASIC PART NUMBER: H7203		ASSEMBLY NUMBER: E-AD-7021682-0-DBU		TOP DOCUMENT NUMBER: E-AD-H7203-A-DBU		FILE NAME: Z9121F.PLS		EDIT # 1

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CHK	DRAWN BY	ENGINEER	CHANGE NO.	DATE	REV
17	MIKE MCDOUGH	S. KEIR	L880	7-14-87	F
18	DISCORCORAN	S. MORRIS	L887	7-27-87	H
19	T. MCCULLOUGH	C. BOSTNER	F720-LKS	2-17-87	J
20	JH	C. LEADSTILENER	F780E	9-25-87	K

CHK	DRAWN BY	ENGINEER	CHANGE NO.	DATE	REV

- NOTES:
1. THIS BOARD MEETS REQUIREMENTS FOR UL RATING HPWR.
  2. Q1 & Q2 MUST BE FROM SAME VENDOR.
  3. MOUNT J1, J2, J3 ON SIDE 2.
  4. DO NOT INSTALL C47, C48, R133.
- STEP E → Y AXES      STEP      TIMES  
 REPEAT → X AXES      STEP      TIMES

5. REMOVE PIN 4 OF J1 & J3 PRIOR TO INSERTION.
6. J1, J11, J2, J13, T3, T4, C1-C4 TO BE INSERTED AT NEXT HIGHER ASSEMBLY LEVEL. 07203
7. R40 - R28 0° ROTATION.

SIGNATURES	DATE
DRN. MIKE MCDOUGH	7-14-87
CHK'D. S. MORRIS	7-27-87
MECH. ENG. S. KEIR	7-27-87
PROJ. ENG. S. KEIR	7-27-87
PROD. S. MORRIS	7-27-87

SCALE 2x  
 SH. 1 OF 2  
 TOP DOC. NO. K-00-541620-0-0

TITLE  
 ENHANCED LEM P.S.

SIZE CODE NUMBER  
 D U A 541620-0-0 K

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DUA 5416120-0-0 K 2

REWORK INSTRUCTIONS ECO#7

DRILL HOLES:

- 7-1 (A) DRILL 3 VERTICALLY ALIGNED HOLES WITH A NUMBER 54 DRILL BIT.
- (B) THE HOLES MUST BE 10. MM (3/8") TO THE LEFT OF D39, THE MEASUREMENTS MUST BE MADE FROM THE CENTER OF THE HOLES OF D39. THE HOLES ARE 1/8" APART. MAKE SURE THE HOLES DO NOT GO THROUGH THE ETCH LINES ON SIDE 2.

COMPONENT ADDS:

- 7-2 (A) INSTALL 3 GRIPLETS P/N 90-06731-00 IN THE HOLES DRILLED IN 7-1.
- (B) WHEN THE GRIPLETS ARE PROPERLY INSTALLED MAKE SURE THEY DO NOT SHORT OUT TO THE ETCHES ON SIDE 1 AND 2.
- 7-3 (A) INSTALL TRANSISTOR Q18, P/N 15-10706-00 FLAT SIDE FACING D39.

WIRE ADDS:

- 7-4 (A) RUN A 30 GAUGE WIRE, P/N 91-05740-55, 1 1/2" LONG ON SIDE 1 FROM Q18-C TO E16-7.
- (B) RUN A 30 GAUGE WIRE, P/N 91-05740-55, 1 1/2" LONG ON SIDE 1 FROM Q18-B TO CATHODE OF D48.
- (C) RUN A 20 GAUGE WIRE, P/N 91-05740-55, 1 1/2" LONG ON SIDE 1 FROM Q18-E TO THE UPPER (NORTH) SIDE OF R59.

REWORK INSTRUCTIONS ECO H7204-LK005:

COMPONENT REMOVAL:

- 5-1 REMOVE C31 BE CAREFUL! YOU WILL USE IT AGAIN.

COMPONENT ADD:

- 5-2 ADD DEC PART NUMBER 91-07256-11. ADD .25" TO ANODE SIDE OF DIODE LEAD, D61.
- 5-3 (A) ADD DEC PART NUMBER 11-18820-00, D61. INSTALL D61 IN VACATED LOCATION OF C31. D61 ANODE TERMINAL (POSITIVE) FACES R60 AND Q13.
- (B) SHAPE C31 TERMINAL INTO A J.
- (C) HOOK THE POSITIVE SIDE AT C31 TO THE EMITTER OF Q5 AND THE OTHER SIDE TO CATHODE OF D61.
- (D) SOLDER ALL TERMINALS.

DUA 5416120-0-0 K

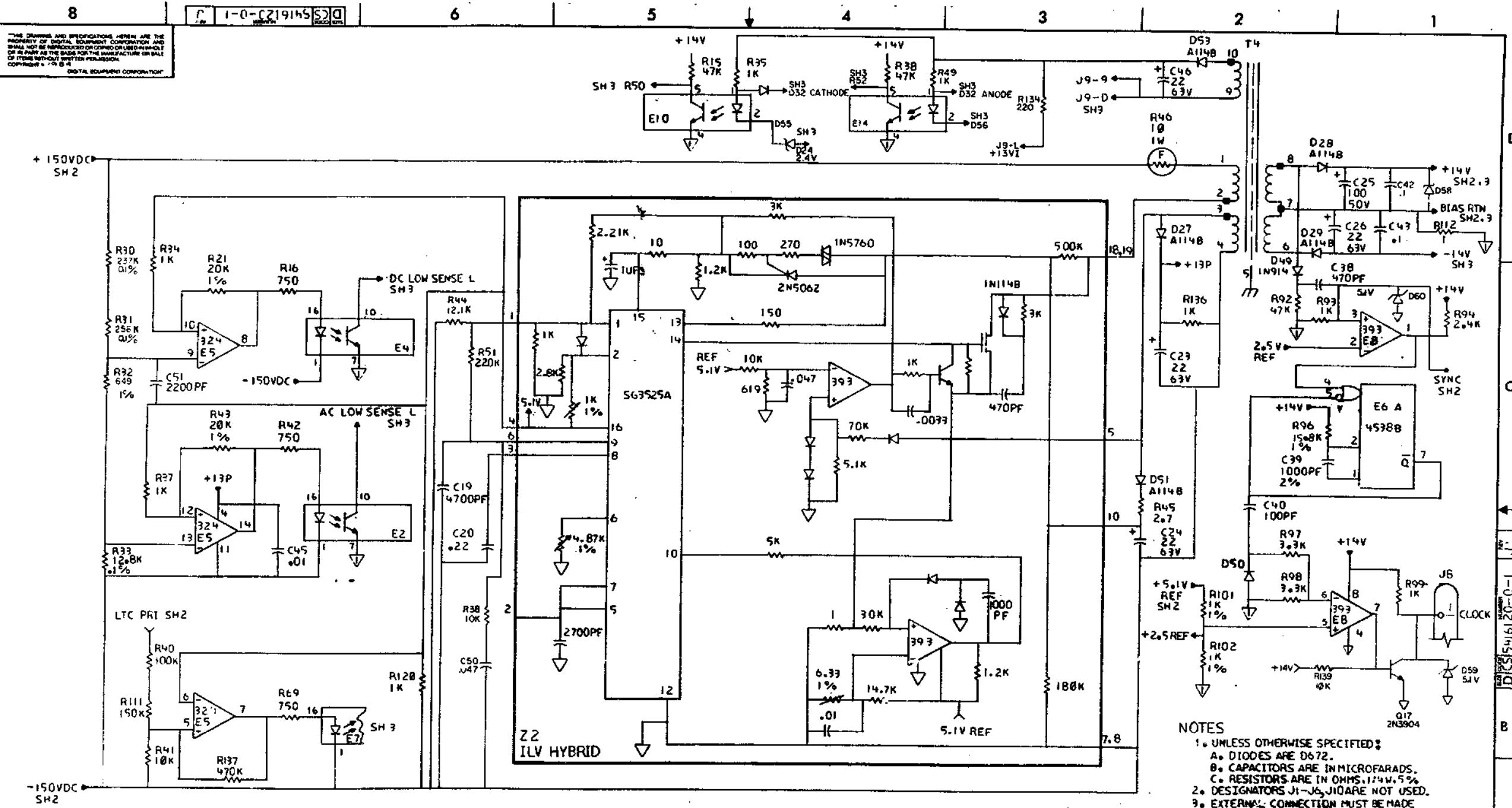
DUA 5416120-0-0 K

DUA 5416120-0-0 K

REVISIONS		
CHK	CHANGE NO	REV

TITLE	ENHANCED LEM P.S.	SIZE CODE	DUA	NUMBER	5416120-0-0	REV	K
SCALE	NONE	SHEET	2	OF	2	DIST	

MKO



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- NOTES
- UNLESS OTHERWISE SPECIFIED:
    - DIODES ARE D672.
    - CAPACITORS ARE IN MICROFARADS.
    - RESISTORS ARE IN OHMS, 1% 1/4W, 5%.
  - DESIGNATORS J1-J6, J10 ARE NOT USED.
  - EXTERNAL CONNECTION MUST BE MADE WHEN NOT USING A BUSBAR.

REV.	DATE	BY	CHKD.	DESCRIPTION
1	7-28-84	J. S. Morris	J. S. Morris	Initial Design
2	7-28-84	J. S. Morris	J. S. Morris	Design Changes
3	7-28-84	J. S. Morris	J. S. Morris	Design Changes
4	7-28-84	J. S. Morris	J. S. Morris	Design Changes
5	7-28-84	J. S. Morris	J. S. Morris	Design Changes
6	7-28-84	J. S. Morris	J. S. Morris	Design Changes
7	7-28-84	J. S. Morris	J. S. Morris	Design Changes
8	7-28-84	J. S. Morris	J. S. Morris	Design Changes

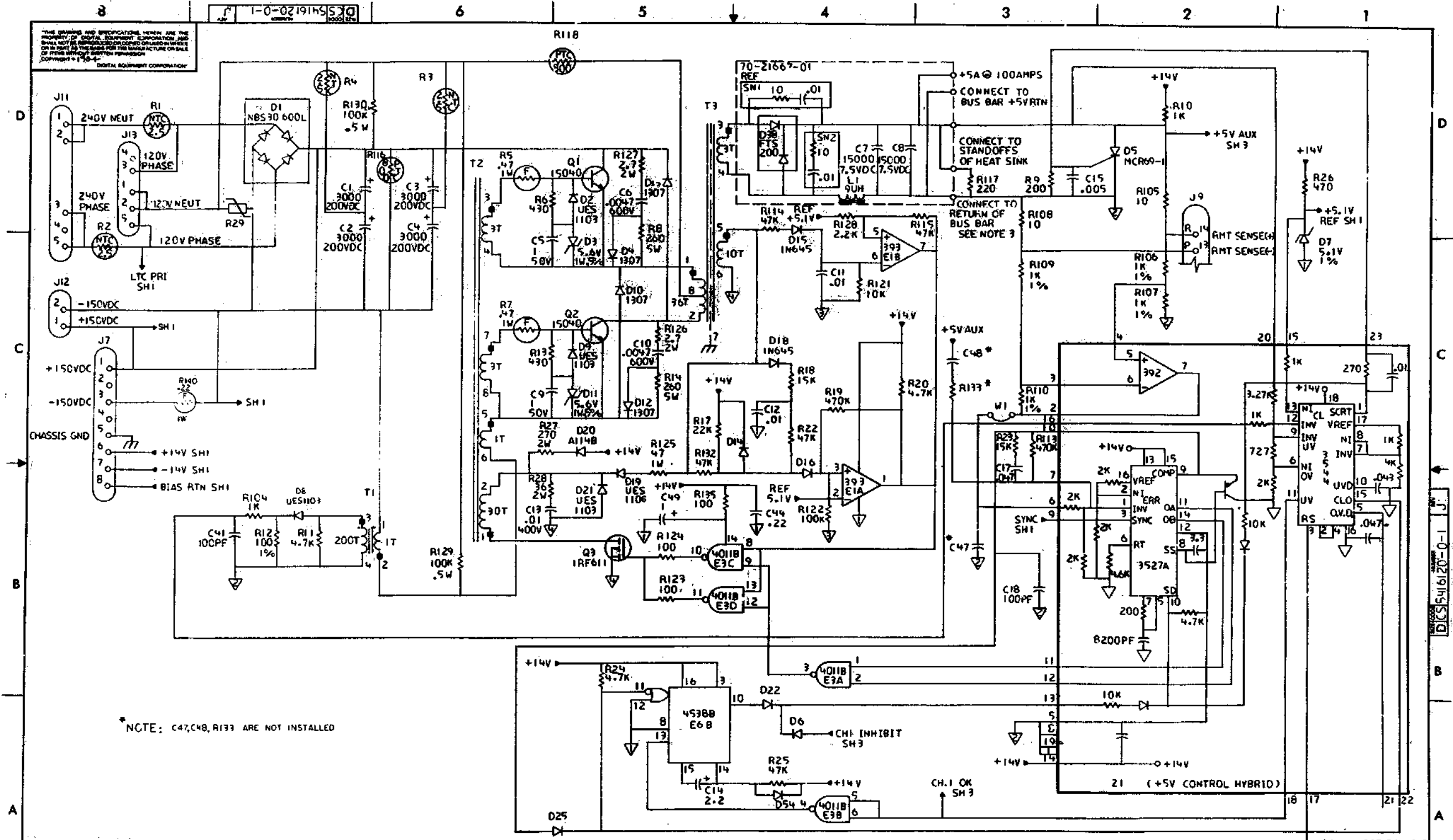
DESIGNED BY J. S. Morris	DATE 7-28-84	TITLE digital
CHECKED BY J. S. Morris	DATE 7-28-84	ENHANCED LEMPS.
APPROVED BY J. S. Morris	DATE 7-28-84	DOCUMENT NUMBER
DATE 7-28-84	REV. 1	D E S 5416120-0-1 J
K-DD-5416120-0-0		

REVISION HISTORY

MKO



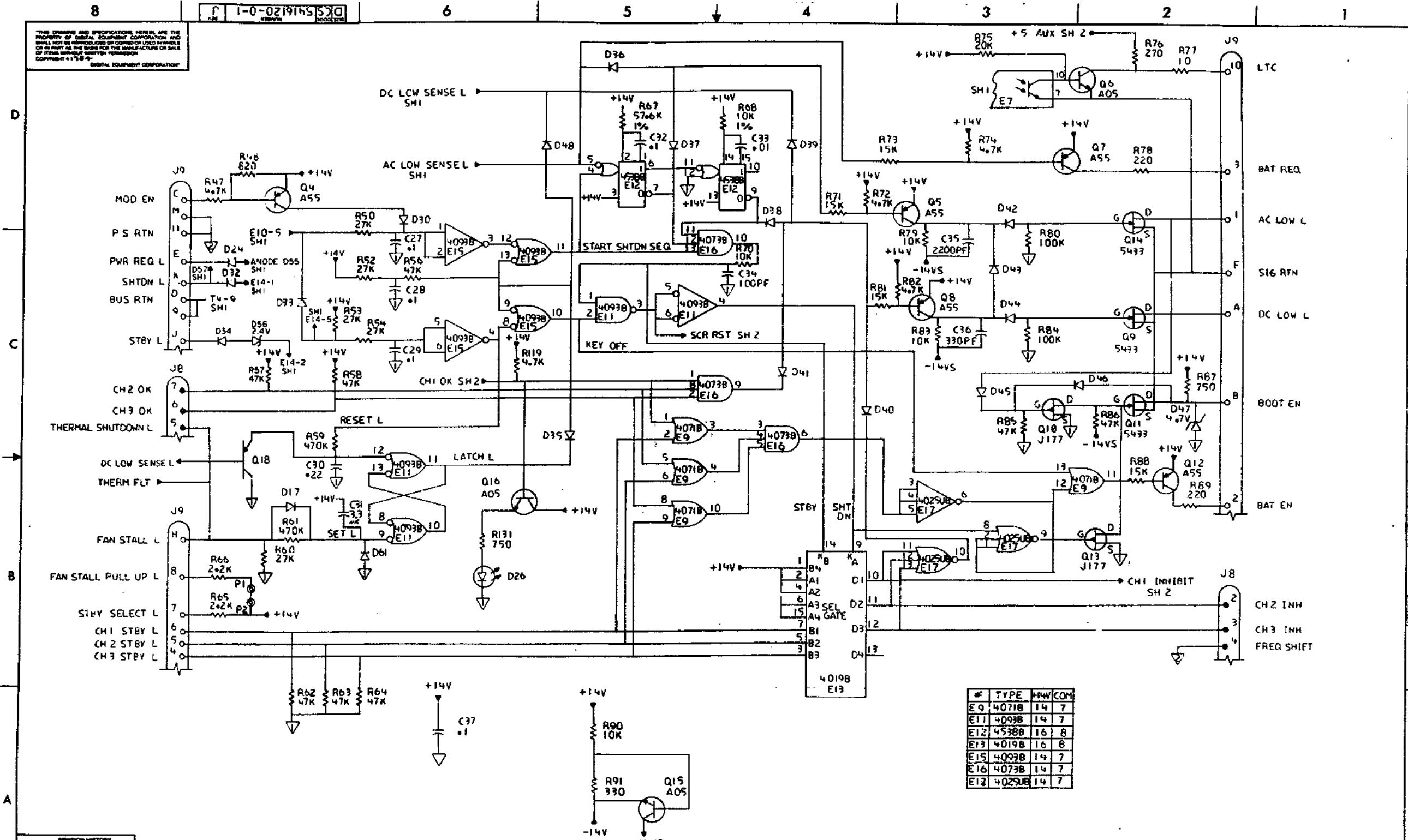
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REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE: ENHANCED LEM P.S.  
 DOCUMENT NUMBER: DES 5416120-0-1  
 SHEET 2 OF 3

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#	TYPE	HW	COM
E9	4071B	14	7
E11	4093B	14	7
E12	4538B	16	8
E13	4019B	16	8
E15	4093B	14	7
E16	4073B	14	7
E17	4025UB	14	7

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE  
ENHANCED  
LEM P.S.

REV	CODE	DOCUMENT NUMBER	NAME	REV
		DCS 5416120-0-1		

SCALE: SHEET 3 OF 3

DRAWING NO.	NO. SHYS	PART NO.	DESCRIPTION	REVISIONS																																																																																																																																																																
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<p>NOTES: ECO LK005 - REFER TO M7204-LK005, ITEMS 21-35.</p>				<table border="1"> <tr><th>REV</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th><th>H</th><th>J</th><th>K</th></tr> <tr><td>R</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>E</td><td>I</td><td>T</td><td>T</td><td>T</td><td>T</td><td>L</td><td>L</td><td>L</td><td>M</td></tr> <tr><td>M</td><td>C</td><td>N</td><td>M</td><td>M</td><td>M</td><td>K</td><td>K</td><td>K</td><td>K</td></tr> <tr><td>V</td><td>O</td><td>I</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td></tr> <tr><td>I</td><td>S</td><td>T</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td></tr> <tr><td>S</td><td>T</td><td>O</td><td>T</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td><td>O</td></tr> <tr><td>I</td><td>O</td><td>N</td><td></td><td>1</td><td>2</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>O</td><td>R</td><td>O</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>N</td><td>Y</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>B</td><td>D</td><td>O</td><td>O</td><td>O</td><td>O</td><td>1</td><td>O</td></tr> <tr><td></td><td></td><td>A</td><td>9</td><td>3</td><td>4</td><td>9</td><td>0</td><td>4</td><td>4</td></tr> <tr><td></td><td></td><td>T</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td></tr> <tr><td></td><td></td><td>E</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td></tr> <tr><td></td><td></td><td></td><td>4</td><td>5</td><td>5</td><td>5</td><td>5</td><td>6</td><td>6</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td><td>7</td></tr> </table>	REV	A	B	C	D	E	F	H	J	K	R										E	I	T	T	T	T	L	L	L	M	M	C	N	M	M	M	K	K	K	K	V	O	I	O	O	O	O	O	O	O	I	S	T	O	O	O	O	O	O	O	S	T	O	T	O	O	O	O	O	O	I	O	N		1	2	4	5	6	7	O	R	O								N	Y											B	D	O	O	O	O	1	O			A	9	3	4	9	0	4	4			T	/	/	/	/	/	/	/			E	8	8	8	8	8	8	8				4	5	5	5	5	6	6									7	7
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						01 J2	
1	1		50-16119-01	M	DRILL AND ETCH	1	
2	2		10-01383-00		4700 PFD 100V +/- 3% 200PP	1	C19
3	3		10-01765-00		5000 PFD 100V +/- 20% ZST	1	C15
4	4		10-02627-00		2.2 MFD 20V +/- 10% SOL	1	C14
5	5		10-05334-00		3.3 MFD 20V +/- 10% SOL	1	C31
6	6		10-10274-02		1.0 MFD 50V +80/-20% Z5U C	3	C5, C9, C49
7	7	BLANK			*** THIS ITEM IS NOT USED ***	-	
8	8		10-11847-01		0.010MFD 400V +/- 10% POLYP	1	C13
9	9		10-11847-03		4700 PFD 600V +/- 10% POLYP	2	C6, C10
10	10		10-12784-00		0.047MFD 50V +80/-20% Z5U C	2	C17, C50
11	11		10-13466-04		100 PFD 50V +/- 5% NPO C	4	C18, C34, C40, C41
12	12		10-13466-11		0.22 MFD 50V +80/-20% Z5U C	3	C20, C30, C44
13	13		10-13466-12		2200 PFD 50V +/- 10% X7R C	2	C35, C51
14	14		10-13466-16		0.010MFD 50V +/- 10% X7R C	4	C11, C12, C33, C45
15	15		10-13466-18		330 PFD 50V +/- 5% NPO C	1	C36
16	16		10-13466-19		470 PFD 50V +/- 5% NPO C	1	C38
17	17		10-13466-22		0.10 MFD 50V +80/-20% Z5U C	6	C27, C29, C37, C42, C43
18	18		10-13466-36		1000 PFD 50V +/- 2% NPO C	1	C39
19	19		10-23072-01		100 MFD 50V +75/-10% ALU	1	C25
20	20		10-23976-01		22 MFD 63V +/- 20% ALU	4	C23, C24, C26, C46
21	21		11-00124-00		VZ= 4.7 5% 400 MW 1N750A	1	D47
22	22		11-05275-00		PIV= 60 IO=300 MA -15MS	28	D6, D14, D16, D17, D22, D24, D25, D30, D32, D46, D48, D50, D52, D54, D57
23	23		11-05314-00		PIV= 225 IO= .40A 1N645 DO-7	2	CONT D15, D18
24	24		11-05871-00		VZ= 5.15 1% 250 MW	3	D7, D59, D60
25	25		11-09197-00		VZ= 5.6 5% 1 W 1N4734A	2	D3, D11
26	26		11-09517-00		PIV= 75 IO=150 MA - 4MS 1N914B	1	D49
27	27		11-12595-01		PIV= 200 IO= 1.00A AXIAL	6	D20, D27, D29, D51, D53
28	28		11-14245-00		RECT. ASSY PIV= 600 IO=30.00A	1	D1
29	29		11-15465-01		RECT. ULTRA FAST PIV=150 IO= 2.0	4	D2, D8, D9, D21
30	30		11-17061-00		THYRISTOR, VDRM= 25 MC	1	D5
31	31		11-17373-00		LED ASSY GREEN	1	D26

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF AIRDRN:		M. DENSMORE	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE:	16-FEB-88	DIGITAL	
SK	INITIAL	A	[A] 01	DATE:	16-FEB-88	PARTS LIST	
SK	15416160-TW001	B	[B]	DATE:	16-FEB-88	ENHANCED LEM P.S.	
SK	15416120-TW002	C	[C]	DES. ENG:	C. BADSTIBNER		
SK	15416120-TW004	D	[D]	DATE:	16-FEB-88	DOCUMENT NUMBER	
SK	15416120-TW005	E	[E]	RESP. ENG.:	J. ARRUJO	SIZE:	CODE: NUMBER
JA	15416120-LK006	F	[F]	DATE:	16-FEB-88	K	PL 15416120-0-DBP
SK	15416120-LK007	H	[H]	DATE:	16-FEB-88	K	PL 15416120-0-DBP
CB	15416120-LK005	J	[J]	DATE:	16-FEB-88	RELEASE DATE: 16-FEB-88	
CB	15416120-MK008	K	[K]	DATE:	16-FEB-88	RELEASE STATUS: RELEASED	
			[L]				
			[Y]				
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
15416120		1D-UA-5416120-0-0		1K-DB-5416120-0-0		15416120K.PLS	
						EDIT #	
						2	

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PARTS LIST

SHEET A2 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
32	32		11-20562-01		PIV=500 I=33A 50WS	4		D4, D10, D12, D13
33	33		12-74255-14		HEAT SINK, T0-3	2		
34	34		12-16122-01		PCB, HEADER 07PIN(1X07), 156CC KEY	1		J8
35	35		12-18241-00		PCB, HEADER 06PIN(1X08), 156CC STR	1		J7
36	36		13-00229-00		100.0 .25 W 5.0 X CF	3		R123, R124, R135
37	37		13-00271-00		220.0 .25 W 5.0 X CF	4		R78, R89, R117, R134
38	38		13-00295-00		330.0 .25 W 5.0 X CF	1		R91
39	39		13-00316-00		470.0 .25 W 5.0 X CF	1		R26
40	40		13-00365-00		1.0 K .25 W 5.0 X CF	10		R10, R34, R35, R37, R49, R93, R99, CONT R104, R120, R136
41	41		13-00417-00		2.20 K .25 W 5.0 X CF	3		R65, R66, R128
42	42		13-00439-00		3.30 K .25 W 5.0 X CF	2		R97, R98
43	43	BLANK			*** THIS ITEM IS NOT USED ***	-		
44	44		13-00447-00		4.70 K .25 W 5.0 X CF	8		R11, R20, R24, R47, R72, R74, R82, CONT R119
45	45		13-00479-00		10.0 K .25 W 5.0 X CF	8		R41, R70, R79, R83, R90, R121, R138, CONT R139
46	46		13-00496-00		15.0 K .25 W 5.0 X CF	6		R18, R23, R71, R73, R81, R88
47	47		13-01317-00		10.0 .25 W 5.0 X CF	3		R77, R105, R108
48	48		13-01401-00		750.0 .25 W 5.0 X CF	5		R16, R42, R69, R87, R131
49	49		13-01775-00		820.0 .25 W 5.0 X CF	1		R48
50	50		13-01808-00		22.0 K .25 W 5.0 X CF	1		R17
51	51		13-01972-00		270.0 .25 W 5.0 X CF	1		R76
52	52		13-02092-00		220.0 K .25 W 5.0 X CF	1		R51
53	53		13-02177-00		47.0 K .25 W 5.0 X CF	16		R15, R22, R25, R38, R56, R58, CONT R62, R64, R85, R86, R92, R114, R115, CONT R132
54	54	BLANK			*** THIS ITEM IS NOT USED ***	-		
55	55		13-02391-00		20.0 K .25 W 5.0 X CF	1		R75
56	56		13-02396-00		150.0 K .25 W 5.0 X CF	1		R111
57	57		13-02398-00		470.0 K .25 W 5.0 X CF	5		R19, R59, R61, R113, R137
58	58		13-02466-00		100.0 K .25 W 5.0 X CF	4		R40, R80, R84, R122
59	59		13-02858-00		100.0 .25 W 1.0 X RM550-F10	1		R12
60	60		13-03114-00		1.0 K .25 W 1.0 X RM550-F10	6		R101, R102, R106, R107, R109, R110
61	61		13-03177-00		2.40 K .25 W 5.0 X CF	1		R94
62	62		13-03312-00		10.0 K .25 W 1.0 X RM550-F10	1		R68
63	63		13-05346-00		27.0 K .25 W 5.0 X CF	5		R50, R52, R54, R60
64	64		13-09963-00		260.0 5.0 W 3.0 X MW	2		R8, R14
65	65	BLANK			*** THIS ITEM IS NOT USED ***	-		
66	66		13-11522-00		200.0 .25 W 5.0 X CF	1		R9
67	67		13-11996-01		VARISTOR 150VAC VOLT TRANS SUP	1		R29
68	68		13-12482-00		2.70 .25 W 5.0 X CF	1		R45
69	69	BLANK			*** THIS ITEM IS NOT USED ***	-		
70	70		13-13077-00		12.80 K .25 W 0.1 X RM550-B 2	1		R33
71	71		13-13150-00		430.0 .25 W 5.0 X CF	2		R6, R13
72	72		13-13996-00		20.0 K .25 W 1.0 X RM550-F10	2		R21, R43
73	73		13-14270-02		THERMISTOR NTC 2.5 25X	4		R1-R4
74	74		13-14350-04		.47 2.0 W 5.0 X MW FUS	2		R5, R7
75	75		13-18544-06		15.80 K .25 W 1.0 X RM550-F10	1		R96
76	76		13-15518-02		10.0 1.0 W10.0 X MW FUS	1		R46

DI	IG	IT	AL	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				ENHANCED LEM P.S.		K	PL	5416120-0-DBP	K

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A3 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						01		
						J2		
77	77		13-16506-00	100.0	K .50 W 5.0 X CF	2		R129,R130
78	78		13-17522-00	1.0	.25 W 5.0 X CF	1		R112
79	79		13-18546-15	57.60	K .25 W 1.0 X RN55D-F10	1		R67
80	80		13-19255-20	47.0	1.0 W 5.0 X M.OXIDE	1		R125
81	81		13-19471-06	36.0	2.0 W 5.0 X M.OXIDE	1		R28
82	82		13-19471-20	270.0	2.0 W 5.0 X M.OXIDE	1		R27
83	83		13-20602-10	2.70	2.0 W 5.0 X M.OXIDE	2		R126,R127
84	84		13-22890-02		THERMISTOR PTC 800 30X	2		R116,R118
85	85		15-10705-00		XA 05 NPN 500MW SI 60 50 P	3		06,015,016
86	86		15-10706-00		XA 55 PNP 500MW SI 60 50 P	6		04,05,07,08,012,018
87	87		15-11686-01		FET N 350MW TO-92	3		09,011,014
88	88		15-17832-00	J 177	FET 360MW SI P CHNML	2		010,013
89	89		15-20610-01		NPN 175W 80A 650V	2		01,02
90	90		15-21424-01		FET 150V 2A N-CHNML	1		03
91	91		16-21176-01		XFMR,CURRENT RATIO 200:1 33KHZ	1		T1
92	92		16-22686-01		XFMR,BASE DRIVE,RATIO 30:3:1,3	1		T2
93	93		19-12107-00		324 OP AMP,QUAD	1		E5
94	94		19-14156-00	LM	393 VOLT.COMPARATOR DUAL	2		E1,E8
95	95		19-14194-00		OPTP-COUPLED ISOLATOR	2		E10,E14
96	96		19-22366-01		OPTOCOUPLER HI ISOLATION 8KV 4P	3		E2,E4,E7
97	97		20-21063-02		HYBRID,INTERNAL LOW VOLTAGE MODU	1		Z2
98	98		20-22943-01		HYBRID,CONTROL 5.0V	1		Z1
99	99		21-13612-00		4019B AND-OR SELECT GATE-Q	1		E13
100	100		21-13615-00		4025UBNOR GATE-TRIPLE 3IN	1		E17
101	101		21-13635-00		4071B OR GATE-QUAD 2IN CMO	1		E9
102	102		21-13637-00		4073B AND GATE-TRIPLE 3IN	1		E16
103	103		21-13644-00		4093B NAND GATE-QUAD 2IN C	2		E11,E15
104	104		21-17883-00		4011B NAND GATE,QUAD BUFFE	1		E3
105	105		21-22143-01		M4538B DUAL PREC MONOSTABLE	2		E6,E12
106	106		74-30840-01		GUIDE,HYBRID	2		
107	107		90-06018-01		SCREW,MACH PAN PHIL 4-	2		
108	108		90-06632-00		WASHER,LOCK INTERNAL STEEL	2		
109	109		90-06659-00		WASHER,FLAT S/PAS	4		
110	110		90-09111-02		INSERT,THREAD PC BOARD	2		
111	111		90-09111-03		INSERT,THREAD PC BOARD	9		
112	112		90-09185-00		JUMPER, WIRE, INSULATED, BLACK 8	1		W1
113	113		90-09676-00		TERM,SOLDER BARRIER STR	4		
114	114		90-09798-00		SPACER,CLEAR HOLE RND CERAM .07	14		
115	115		90-07794-01		SCREW,MACH PAN PHIL 6-	4		
116	116		90-10531-01		STANDOFF,SNAGE ROUND 10-32	1		
117	117	SEE NOTE # 117	91-07796-88		WIRE, 22AWG(07/30)IPVC 300VT	A/R		
118	118		11-17721-02		TRANS,SUPP. 16V 5W	1		D58
119	119		11-01938-00		VZ= 2.4 5X 400 MW 1N4370A	2		D55,D56
120	120		90-06731-00		EYELET,SERRATED TP 0.046000X0.08	3		
121	121	SEE NOTE # 121	91-05740-55		WIRE(WRAP) 30AWG KYMAR UL14	A/R		
122	122		13-15437-00	237.0	K .25 W 1.0 X RN55D-F10	1		R30
123	123		13-05517-00	256.0	K .25 W 0.1 X RN55E-B 2	1		R31
124	124		13-12921-00	649.0	.25 W 1.0 X RN55D-F10	1		R32
125	125		11-19609-02		RECT.FAST RECOVERY PIV= 400 IO=	1		D19
126	126		15-09524-00	2N 3904	NPN 310MW SI 40 40 M	1		Q17

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							ENHANCED LEM P.S.		K	PL	5416120-0-DBP	K

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A4 OF A4

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
127	127		13-14350-01		.22 2.0 M 5.0 J MM FUS	1	R140
128	128		91-07688-55		*** THIS ITEM IS NOT USED ***	-	
129	129		90-08376-00		*** THIS ITEM IS NOT USED ***	-	
130	130		91-07278-11		*** THIS ITEM IS NOT USED ***	-	
131	131		13-03393-00		12.10 K .25 W 1-0 X RM550-P10	1	R44
132	132		10-15573-02		0.10 MFD SOV +/-10% X7R C	1	C32
133	133		11-18820-00		DIODE ARRAY PIV= 20 IO= 1.00A	1	B61
134	134		91-07256-11		TUBING, TEFLON .027ID	A/R	

117 NOTE: ITEM 117 0.8 FT. IS USED.  
 121 NOTE: ITEM 121 4.5" IS USED.

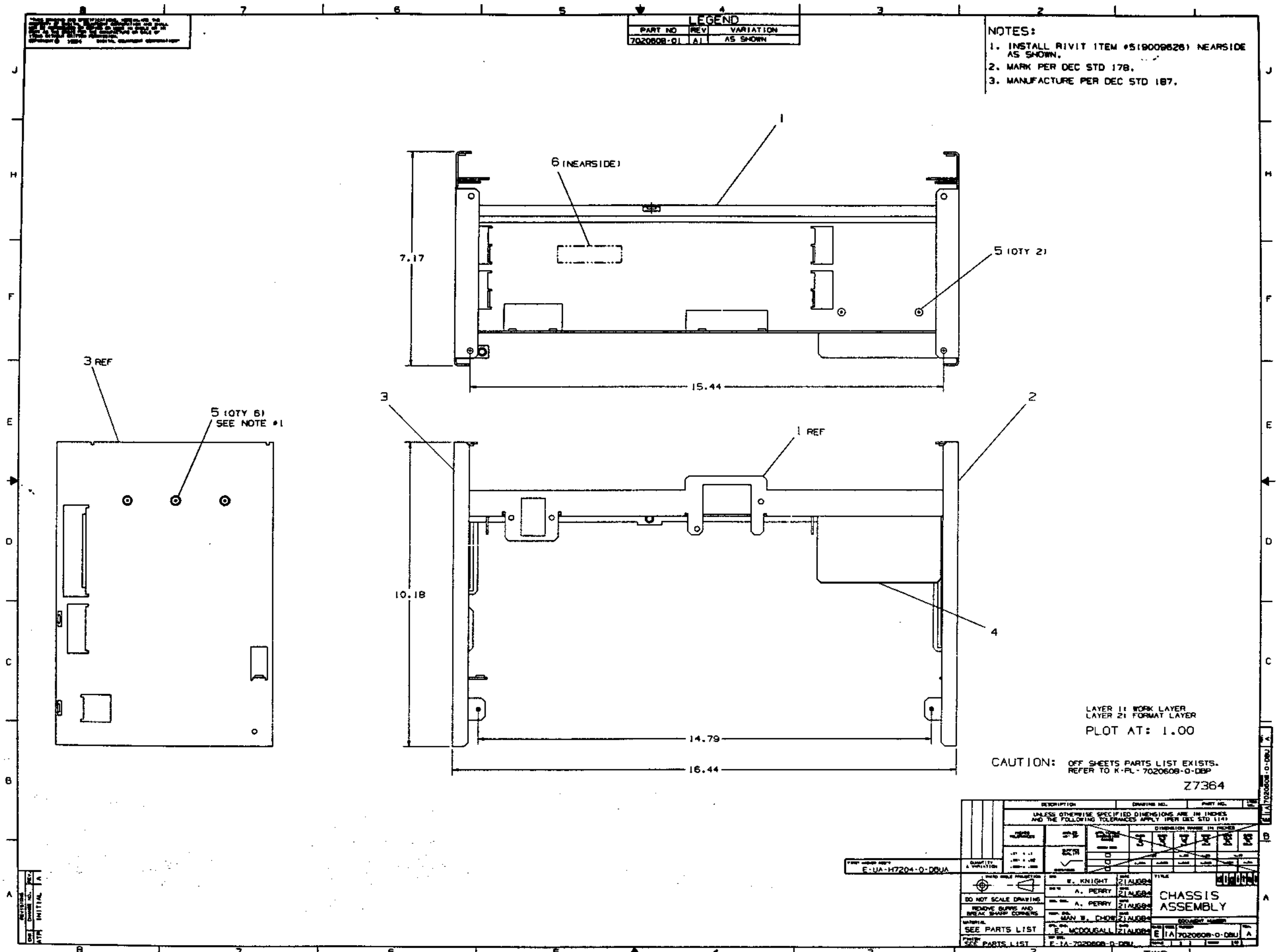
1 GEN: ITEM 134 0.25" USED

DIGITAL				TITLE	SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
				ENHANCED LEM P.S.			K	PL	5416120-0-DBP	K

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LEGEND		
PART NO	REV	VARIATION
7020608-01	A1	AS SHOWN

- NOTES:
1. INSTALL RIVET ITEM #5(9009828) NEARSIDE AS SHOWN.
  2. MARK PER DEC STD 178.
  3. MANUFACTURE PER DEC STD 187.



LAYER 11 WORK LAYER  
 LAYER 21 FORMAT LAYER  
 PLOT AT: 1.00  
 CAUTION: OFF SHEETS PARTS LIST EXISTS.  
 REFER TO K-PL-7020608-0-DBP  
 Z7364

DESCRIPTION	DRAWING NO.	PART NO.	REV.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
DISTRIBUTION MADE IN PAGES			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
TWO			

<p>DO NOT SCALE DRAWING</p> <p>REMOVE BURRS AND BREAK SHARP CORNERS</p> <p>SEE PARTS LIST</p> <p>SEE PARTS LIST</p>	<p>E-1A-H7204-0-DBU A</p> <p>E. KNIGHT</p> <p>A. PERRY</p> <p>A. PERRY</p> <p>MAN W. CHOW</p> <p>E. MCCOUGAL</p> <p>E-1A-7020608-0-DBU A</p>	<p>CHASSIS ASSEMBLY</p> <p>E-1A-7020608-0-DBU A</p>
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AUTOMATED BY PRTLST.5R(55)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION
					VARIATION REVISION LEVEL:	01	01
1	1	E-IA-7429746-0-0	7429746-01		BRACKET,MODULE	1	
2	2	E-IA-7429743-0-0	7429743-01		PANEL,RIGHT	1	
3	3	E-IA-7429744-0-0	7429744-01		PANEL,LEFT	1	
4	4	B-MD-7429747-0-0	7429747-01		BRACKET,BAFFLE	1	
5	5		9009626-00		RIVET,BLIND DOME 0.125DX0.275	8	
6	6		9009255-03		LABEL,P.S./SUB.ASSY ID	1	

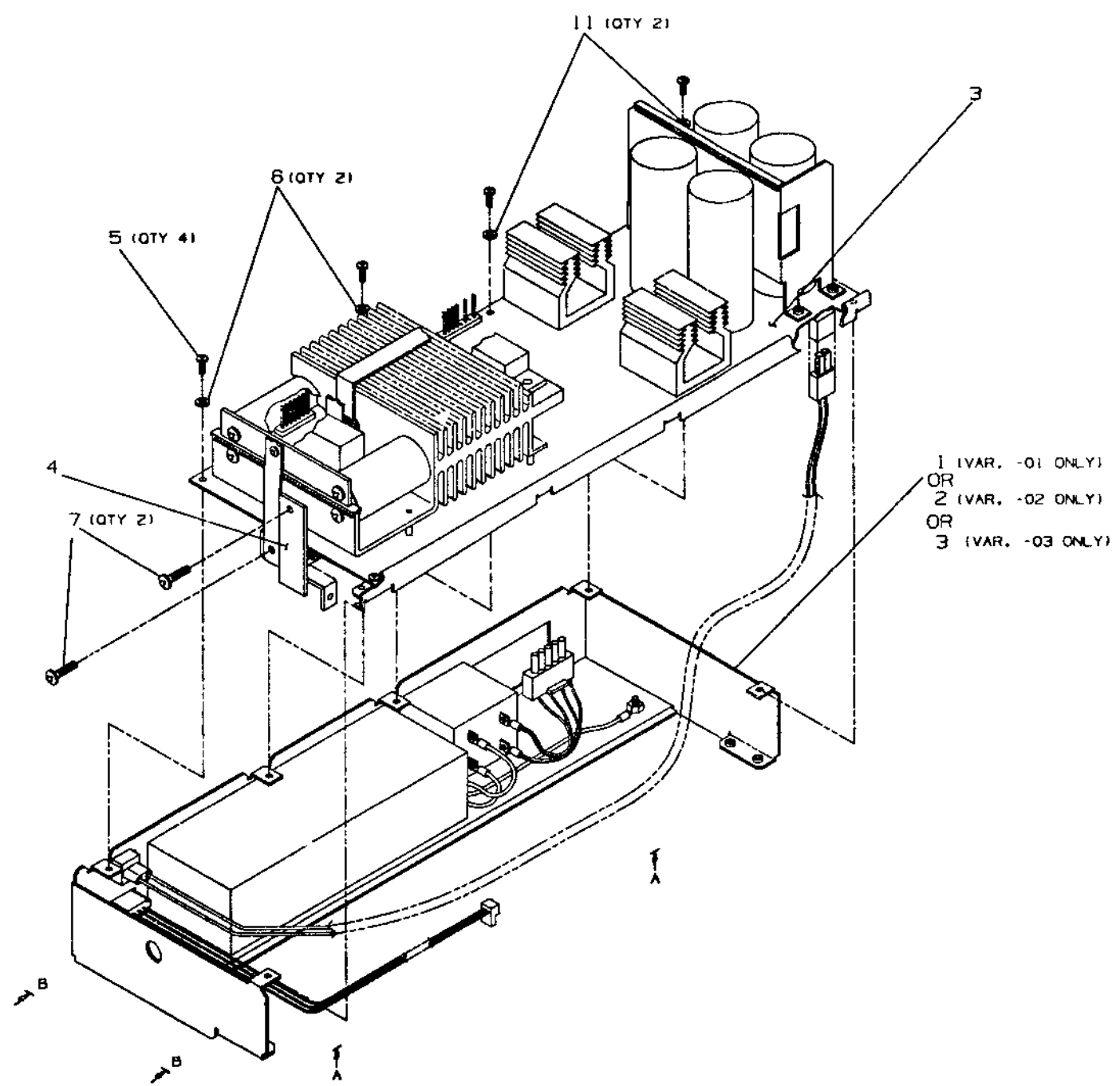
REVISION HISTORY			BASIC PART NO: 7020608						
ENG:	ECO NUMBER	REV	SECTION A OF A	DRN:	W. KNIGHT	DATE:	21-AUG-84	D I G I T A L	
	INITIAL	A	SECTION VARIATION INDEX (A)01	CHK'D:	A. PERRY	DATE:	21-AUG-84	TITLE PARTS LIST CHASSIS ASSEMBLY	
			(B)	DES.ENG:	A. PERRY	DATE:	21-AUG-84	DOCUMENT NUMBER	
			(C)	RESP.ENG.:	MAN W. CHOW	DATE:	21-AUG-84	SIZE:CODE:	NUMBER
			(D)	MFG.ENG.:	V. MITCHELL	DATE:	21-AUG-84	K PL	7020608-0-DBP
			(E)	ASSEMBLY NUMBER:	E-UA-H7204-0-DBUA	TOP DOCUMENT NUMBER:	E-IA-7020608-0-DBUA	FILE NAME:	Z7364.PLS
			(F)			RELEASE DATE:	08-OCT-84	EDIT #	2

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LEGEND		
PART NO	REV	VARIATION
70-21682-01	01	AS SHOWN
70-21682-02	01	SEE PARTS LIST
70-21682-03	01	SEE PARTS LIST

NOTE:  
1. TORQUE ALL SCREWS PER A-SP-7665328-0-0.



LAYER #4: FORMAT LAYER (SHT 2)  
LAYER #3: WORK LAYER (SHT 2)  
LAYER #2: FORMAT LAYER (SHT 1)  
LAYER #1: WORK LAYER (SHT 1)  
PLOT SCALE: .750  
FILE NAME: 7021682-0-DBUF

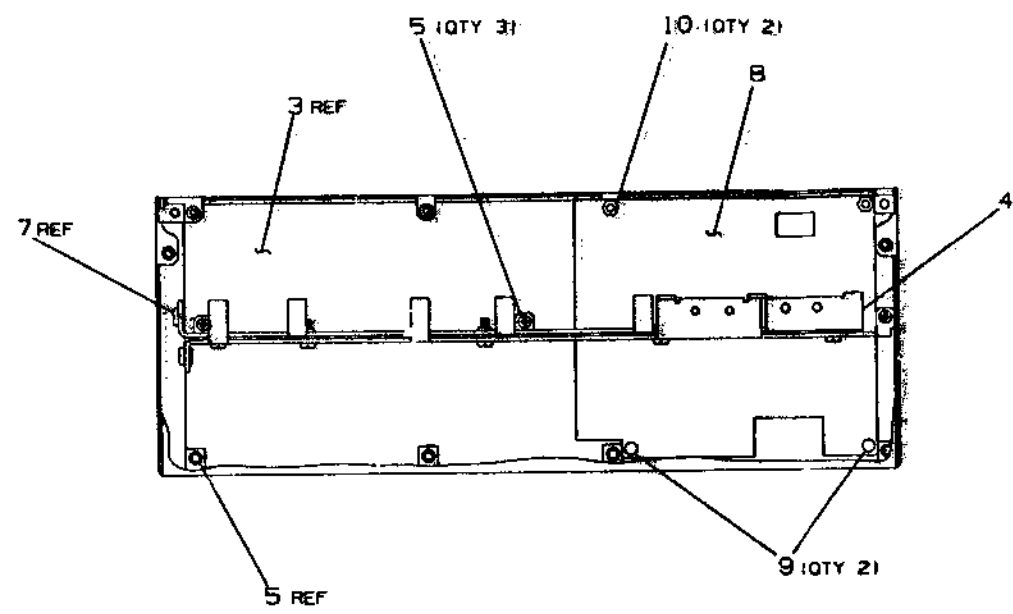
CAUTION: FOR OFF SHEET PARTS LIST, REFER TO K-PL-7021682-0-DBP.

REV	DATE	BY	CHKD	DESCRIPTION
1	01/17/00	0107/00/0000		INITIAL RELEASE
2	01/17/00	0107/00/0000		REVISION
3	01/17/00	0107/00/0000		REVISION
4	01/17/00	0107/00/0000		REVISION
5	01/17/00	0107/00/0000		REVISION
6	01/17/00	0107/00/0000		REVISION
7	01/17/00	0107/00/0000		REVISION
8	01/17/00	0107/00/0000		REVISION
9	01/17/00	0107/00/0000		REVISION
10	01/17/00	0107/00/0000		REVISION

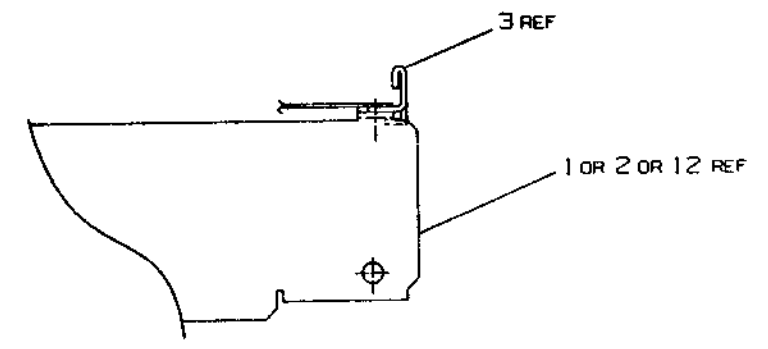
DESCRIPTION	DRAWING NO.	PART NO.	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DES STD 118)			
DIMENSION RANGE IN INCHES			
0.00 - 0.25	0.25 - 0.50	0.50 - 1.00	1.00 - 2.00
±0.005	±0.005	±0.005	±0.005
0.25 - 0.50	0.50 - 1.00	1.00 - 2.00	2.00 - 4.00
±0.005	±0.005	±0.005	±0.005
0.50 - 1.00	1.00 - 2.00	2.00 - 4.00	4.00 - 8.00
±0.005	±0.005	±0.005	±0.005
1.00 - 2.00	2.00 - 4.00	4.00 - 8.00	8.00 - 16.00
±0.005	±0.005	±0.005	±0.005
2.00 - 4.00	4.00 - 8.00	8.00 - 16.00	16.00 - 32.00
±0.005	±0.005	±0.005	±0.005
4.00 - 8.00	8.00 - 16.00	16.00 - 32.00	32.00 - 64.00
±0.005	±0.005	±0.005	±0.005
8.00 - 16.00	16.00 - 32.00	32.00 - 64.00	64.00 - 128.00
±0.005	±0.005	±0.005	±0.005
16.00 - 32.00	32.00 - 64.00	64.00 - 128.00	128.00 - 256.00
±0.005	±0.005	±0.005	±0.005
32.00 - 64.00	64.00 - 128.00	128.00 - 256.00	256.00 - 512.00
±0.005	±0.005	±0.005	±0.005
64.00 - 128.00	128.00 - 256.00	256.00 - 512.00	512.00 - 1024.00
±0.005	±0.005	±0.005	±0.005
128.00 - 256.00	256.00 - 512.00	512.00 - 1024.00	1024.00 - 2048.00
±0.005	±0.005	±0.005	±0.005
256.00 - 512.00	512.00 - 1024.00	1024.00 - 2048.00	2048.00 - 4096.00
±0.005	±0.005	±0.005	±0.005
512.00 - 1024.00	1024.00 - 2048.00	2048.00 - 4096.00	4096.00 - 8192.00
±0.005	±0.005	±0.005	±0.005
1024.00 - 2048.00	2048.00 - 4096.00	4096.00 - 8192.00	8192.00 - 16384.00
±0.005	±0.005	±0.005	±0.005
2048.00 - 4096.00	4096.00 - 8192.00	8192.00 - 16384.00	16384.00 - 32768.00
±0.005	±0.005	±0.005	±0.005
4096.00 - 8192.00	8192.00 - 16384.00	16384.00 - 32768.00	32768.00 - 65536.00
±0.005	±0.005	±0.005	±0.005
8192.00 - 16384.00	16384.00 - 32768.00	32768.00 - 65536.00	65536.00 - 131072.00
±0.005	±0.005	±0.005	±0.005
16384.00 - 32768.00	32768.00 - 65536.00	65536.00 - 131072.00	131072.00 - 262144.00
±0.005	±0.005	±0.005	±0.005
32768.00 - 65536.00	65536.00 - 131072.00	131072.00 - 262144.00	262144.00 - 524288.00
±0.005	±0.005	±0.005	±0.005
65536.00 - 131072.00	131072.00 - 262144.00	262144.00 - 524288.00	524288.00 - 1048576.00
±0.005	±0.005	±0.005	±0.005
131072.00 - 262144.00	262144.00 - 524288.00	524288.00 - 1048576.00	1048576.00 - 2097152.00
±0.005	±0.005	±0.005	±0.005
262144.00 - 524288.00	524288.00 - 1048576.00	1048576.00 - 2097152.00	2097152.00 - 4194304.00
±0.005	±0.005	±0.005	±0.005
524288.00 - 1048576.00	1048576.00 - 2097152.00	2097152.00 - 4194304.00	4194304.00 - 8388608.00
±0.005	±0.005	±0.005	±0.005
1048576.00 - 2097152.00	2097152.00 - 4194304.00	4194304.00 - 8388608.00	8388608.00 - 16777216.00
±0.005	±0.005	±0.005	±0.005
2097152.00 - 4194304.00	4194304.00 - 8388608.00	8388608.00 - 16777216.00	16777216.00 - 33554432.00
±0.005	±0.005	±0.005	±0.005
4194304.00 - 8388608.00	8388608.00 - 16777216.00	16777216.00 - 33554432.00	33554432.00 - 67108864.00
±0.005	±0.005	±0.005	±0.005
8388608.00 - 16777216.00	16777216.00 - 33554432.00	33554432.00 - 67108864.00	67108864.00 - 134217728.00
±0.005	±0.005	±0.005	±0.005
16777216.00 - 33554432.00	33554432.00 - 67108864.00	67108864.00 - 134217728.00	134217728.00 - 268435456.00
±0.005	±0.005	±0.005	±0.005
33554432.00 - 67108864.00	67108864.00 - 134217728.00	134217728.00 - 268435456.00	268435456.00 - 536870912.00
±0.005	±0.005	±0.005	±0.005
67108864.00 - 134217728.00	134217728.00 - 268435456.00	268435456.00 - 536870912.00	536870912.00 - 1073741824.00
±0.005	±0.005	±0.005	±0.005
134217728.00 - 268435456.00	268435456.00 - 536870912.00	536870912.00 - 1073741824.00	1073741824.00 - 2147483648.00
±0.005	±0.005	±0.005	±0.005
268435456.00 - 536870912.00	536870912.00 - 1073741824.00	1073741824.00 - 2147483648.00	2147483648.00 - 4294967296.00
±0.005	±0.005	±0.005	±0.005
536870912.00 - 1073741824.00	1073741824.00 - 2147483648.00	2147483648.00 - 4294967296.00	4294967296.00 - 8589934592.00
±0.005	±0.005	±0.005	±0.005
1073741824.00 - 2147483648.00	2147483648.00 - 4294967296.00	4294967296.00 - 8589934592.00	8589934592.00 - 17179869184.00
±0.005	±0.005	±0.005	±0.005
2147483648.00 - 4294967296.00	4294967296.00 - 8589934592.00	8589934592.00 - 17179869184.00	17179869184.00 - 34359738368.00
±0.005	±0.005	±0.005	±0.005
4294967296.00 - 8589934592.00	8589934592.00 - 17179869184.00	17179869184.00 - 34359738368.00	34359738368.00 - 68719476736.00
±0.005	±0.005	±0.005	±0.005
8589934592.00 - 17179869184.00	17179869184.00 - 34359738368.00	34359738368.00 - 68719476736.00	68719476736.00 - 137438953472.00
±0.005	±0.005	±0.005	±0.005
17179869184.00 - 34359738368.00	34359738368.00 - 68719476736.00	68719476736.00 - 137438953472.00	137438953472.00 - 274877906944.00
±0.005	±0.005	±0.005	±0.005
34359738368.00 - 68719476736.00	68719476736.00 - 137438953472.00	137438953472.00 - 274877906944.00	274877906944.00 - 549755813888.00
±0.005	±0.005	±0.005	±0.005
68719476736.00 - 137438953472.00	137438953472.00 - 274877906944.00	274877906944.00 - 549755813888.00	549755813888.00 - 1099511627776.00
±0.005	±0.005	±0.005	±0.005
137438953472.00 - 274877906944.00	274877906944.00 - 549755813888.00	549755813888.00 - 1099511627776.00	1099511627776.00 - 2199023255552.00
±0.005	±0.005	±0.005	±0.005
274877906944.00 - 549755813888.00	549755813888.00 - 1099511627776.00	1099511627776.00 - 2199023255552.00	2199023255552.00 - 4398046511104.00
±0.005	±0.005	±0.005	±0.005
549755813888.00 - 1099511627776.00	1099511627776.00 - 2199023255552.00	2199023255552.00 - 4398046511104.00	4398046511104.00 - 8796093022208.00
±0.005	±0.005	±0.005	±0.005
1099511627776.00 - 2199023255552.00	2199023255552.00 - 4398046511104.00	4398046511104.00 - 8796093022208.00	8796093022208.00 - 17592186044416.00
±0.005	±0.005	±0.005	±0.005
2199023255552.00 - 4398046511104.00	4398046511104.00 - 8796093022208.00	8796093022208.00 - 17592186044416.00	17592186044416.00 - 35184372088832.00
±0.005	±0.005	±0.005	±0.005
4398046511104.00 - 8796093022208.00	8796093022208.00 - 17592186044416.00	17592186044416.00 - 35184372088832.00	35184372088832.00 - 70368744177664.00
±0.005	±0.005	±0.005	±0.005
8796093022208.00 - 17592186044416.00	17592186044416.00 - 35184372088832.00	35184372088832.00 - 70368744177664.00	70368744177664.00 - 140737488355328.00
±0.005	±0.005	±0.005	±0.005
17592186044416.00 - 35184372088832.00	35184372088832.00 - 70368744177664.00	70368744177664.00 - 140737488355328.00	140737488355328.00 - 281474976710656.00
±0.005	±0.005	±0.005	±0.005
35184372088832.00 - 70368744177664.00	70368744177664.00 - 140737488355328.00	140737488355328.00 - 281474976710656.00	281474976710656.00 - 562949953421312.00
±0.005	±0.005	±0.005	±0.005
70368744177664.00 - 140737488355328.00	140737488355328.00 - 281474976710656.00	281474976710656.00 - 562949953421312.00	562949953421312.00 - 1125899906842624.00
±0.005	±0.005	±0.005	±0.005
140737488355328.00 - 281474976710656.00	281474976710656.00 - 562949953421312.00	562949953421312.00 - 1125899906842624.00	1125899906842624.00 - 2251799813685248.00
±0.005	±0.005	±0.005	±0.005
281474976710656.00 - 562949953421312.00	562949953421312.00 - 1125899906842624.00	1125899906842624.00 - 2251799813685248.00	2251799813685248.00 - 4503599627370496.00
±0.005	±0.005	±0.005	±0.005
562949953421312.00 - 1125899906842624.00	1125899906842624.00 - 2251799813685248.00	2251799813685248.00 - 4503599627370496.00	4503599627370496.00 - 9007199254740992.00
±0.005	±0.005	±0.005	±0.005
1125899906842624.00 - 2251799813685248.00	2251799813685248.00 - 4503599627370496.00	4503599627370496.00 - 9007199254740992.00	9007199254740992.00 - 18014398509481984.00
±0.005	±0.005	±0.005	±0.005
2251799813685248.00 - 4503599627370496.00	4503599627370496.00 - 9007199254740992.00	9007199254740992.00 - 18014398509481984.00	18014398509481984.00 - 36028797018963968.00
±0.005	±0.005	±0.005	±0.005
4503599627370496.00 - 9007199254740992.00	9007199254740992.00 - 18014398509481984.00	18014398509481984.00 - 36028797018963968.00	36028797018963968.00 - 72057594037927936.00
±0.005	±0.005	±0.005	±0.005
9007199254740992.00 - 18014398509481984.00	18014398509481984.00 - 36028797018963968.00	36028797018963968.00 - 72057594037927936.00	72057594037927936.00 - 144115188075855872.00
±0.005	±0.005	±0.005	±0.005
18014398509481984.00 - 36028797018963968.00	36028797018963968.00 - 72057594037927936.00	72057594037927936.00 - 144115188075855872.00	

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 DIVISION OF ENGINEERING

7021682-0-DBU 3



VIEW A-A



VIEW B-B  
 BRACKET LOCKING AS SHOWN

REVISION HISTORY

DATE	DESCRIPTION	REV

TITLE A/C MAJOR BOARD ASSY  
 SCALE 3/4  
 SHEET 2 OF 2  
 MKO

8 7 6 5 4 3 2 1

AUTOMATED BY VAXKPL (V1.3)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION		
						01 01	02 01	03 01
1	1	E-AD-7021675-0-DBU	70-21675-01		A/C ASSY	1	-	-
2	2	E-AD-7021675-0-DBU	70-21675-02		A/C ASSY	-	1	-
3	3	E-AD-H7203-A-DBU	H7203-A	D	6411-XX PS: +5V 100A, 300VDC, ACLO, D	1	1	1
4	4	D-AD-7021669-0-DBU	70-21669-01		BUS BAR ASSY.	1	1	1
5	5		90-C9701-00		SCREW, SEMS PAN PHIL 6-32	7	7	7
6	6		90-06659-00		WASHER, FLAT S/PAS	2	2	2
7	7		90-09223-10		SCREW, SEMS PAN PHIL 10-32	2	2	2
8	3	C-MD-7430833-0-DBU	74-30833-01		INSULATOR, THREE LAYER (2 KAPTON, 1	1	1	1
9	9		90-10223-00		RIVET, ACCORDIAN 0.1960X0.390L6	2	2	2
10	10		90-G6560-00		NUT, HEX EXT TOOTH LCKWSHR 6-32X	2	2	2
11	11		90-G6707-00		WASHER, FLAT NYLON	2	2	2
12	12		70-21675-03		A/C ASSEMBLY	-	-	1

REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A		DRN: L. BOURGAULT		DIGITAL		
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		CHK'D:	A. PERRY		TITLE PARTS LIST			
	INITIAL	A	[A]	01, 02, 03	DATE:	22-AUG-84		A/C MAJOR BOARD ASSY			
AP	H7204-TW001	B	[B]		DATE:	22-AUG-84					
JA	7021682-LX001	C	[C]		DEA-ENG:	A. PERRY					
SN	7021682-LX002	D	[D]		DATE:	22-AUG-84		DOCUMENT NUMBER			
CB	H7204-LK005	E	[E]		RESP. ENG.:	MAN W. CROW		SIZE:	CODE:	NUMBER:	REV:
JA	7021682-MK003	F	[F]		DATE:	22-AUG-84		K	PL	7021682-0-DBP	F
			[H]		MFG-ENG:	V. MITCHELL		RELEASE DATE: 14-OCT-87			
			[J]		DATE:	22-AUG-84		RELEASE STATUS: RELEASED			
BASIC PART NUMBER:			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:			FILE NAME:		EDIT #	
7021682			E-UA-H7204-A-DBU		E-AD-7021682-0-DBU			7021682F.PLS		1	

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PARTS LIST

SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QUANTITY PER VARIATION/REVISION		
						01 01	02 01	03 A1
1	1	E-IA-7429745-0-DBU	74-29745-01		PACKET,A/C	1	1	1
2	2	A-PS-1223232-0-0	12-23232-01		FILTER,LINE,16A	1	1	1
3	3	A-PS-1222896-0-0	12-22896-01		BKR 2P 20A/ 20A 250V	1	1	1
4	4	A-PS-1700639-0-0	17-00639-01		CABLE ASSY,02 COND,FLAT,18AWG MATN	1	-	-
5	5	A-PS-1700635-0-0	17-00635-01		WIRE HARN ASSY 03COND 22AWG MATNLO	1	1	-
6	6	A-PS-1700673-0-0	17-00673-01		WIRE HARN ASSY 02COND 16AWG MATENL	1	1	1
7	7		90-09545-00		SCREW,SEMS PAN PHIL 8-32	4	4	4
8	8		90-10174-01		SCREW,SEMS PAN PHIL 8-32	4	4	4
9	9		90-10174-00		SCREW,SEMS PAN PHIL 6-32	4	4	4
10	10		90-06565-00		NUT,HEX EXT TOOTH LCK,SHR 10-32X	1	1	1
11	11		90-06664-00		WASHER,FLAT SST	1	1	1
12	12		36-12680-01		LABEL,GROUND SYMBOL WHITE	1	1	-
13	13		12-12165-01		MATE-N-LOK 02POS(1X02),250CC HSG	-	1	1
14	14		17-00639-02		CABLE ASSY,02 COND,FLAT,18AWG MATN	-	-	1
15	15		17-00635-02		WIRE HARN ASSY 03COND 22AWG MATNLO	-	-	1

REVISION HISTORY			KPL MATRIX FORMAT		SECTION A OF A		DRN: L. BOURGAULT		DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		CHK'D:	A. PERRY		TITLE PARTS LIST				
	INITIAL	A	[A]	01,02,03	DATE:	17-AUG-84		A/C ASSEMBLY				
AP	M7204-T#001	B	[B]		DES. ENG:	A. PERRY						
JA	7021662-MK003	C	[C]		DATE:	17-AUG-84		DOCUMENT NUMBER				
			[D]		SIZE:	K		PL	7021675C.PLS			
			[E]		RESP. ENG:	MAN W. CHOW		NUMBER	REV			
			[F]		DATE:	17-AUG-84		C				
			[G]		MPG. ENG:	V. MITCHELL		RELEASE DATE: 14-OCT-87				
			[H]		DATE:	17-AUG-84		RELEASE STATUS: RELEASED				
			[I]		BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
			[J]		7021675		E-AD-7021682-0-DBU		E-AD-7021675-0-DBU		7021675C.PLS	4

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PARTS LIST

SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION
1	1	D-1A-7429923-0-DBU	7429923-01		BUS,+5V	1
2	2	D-1A-7429924-0-DBU	7429924-01		BUS,RETURN	1
3	3		9008208-05		SCREW,NYLN PAN	5
4	4		9008417-00		WASHER,FLAT	5
5	5		9009255-03		LABEL,P.S./SUB.ASSY ID	1

LF

!BREVCSPTHTMSTOR021669 !		DRN:	L. BOURGAULT	DATE: 31-AUG-84	D I G I T A L
ENG:	ECO NUMBER	REV	SECTION A OF A		TITLE PARTS LIST
-- [F]--	INITIAL	A	SECTION VARIATION INDEX [A]01	CHK'D: A. PERRY	DATE: 31-AUG-84 ! BUSS BAR ASSY
UMBER			(B)	DES.ENG: A. PERRY	DATE: 31-AUG-84
			(C)	RESP.ENG.: MAN W. CHOW	DATE: 31-AUG-84
			(D)	MFG.ENG.: V. MITCHELL	DATE: 31-AUG-84
			(E)		RELEASE DATE: 08-OCT-84
!TOP DOCUMENT NUMBER:		[F]FILE NAME:	!EDIT#ASSEMBLY NUMBER:	E-AD-7021682-0-DBUA	D-AD-7021669-0-DBU
					Z9091A.PLS
					5

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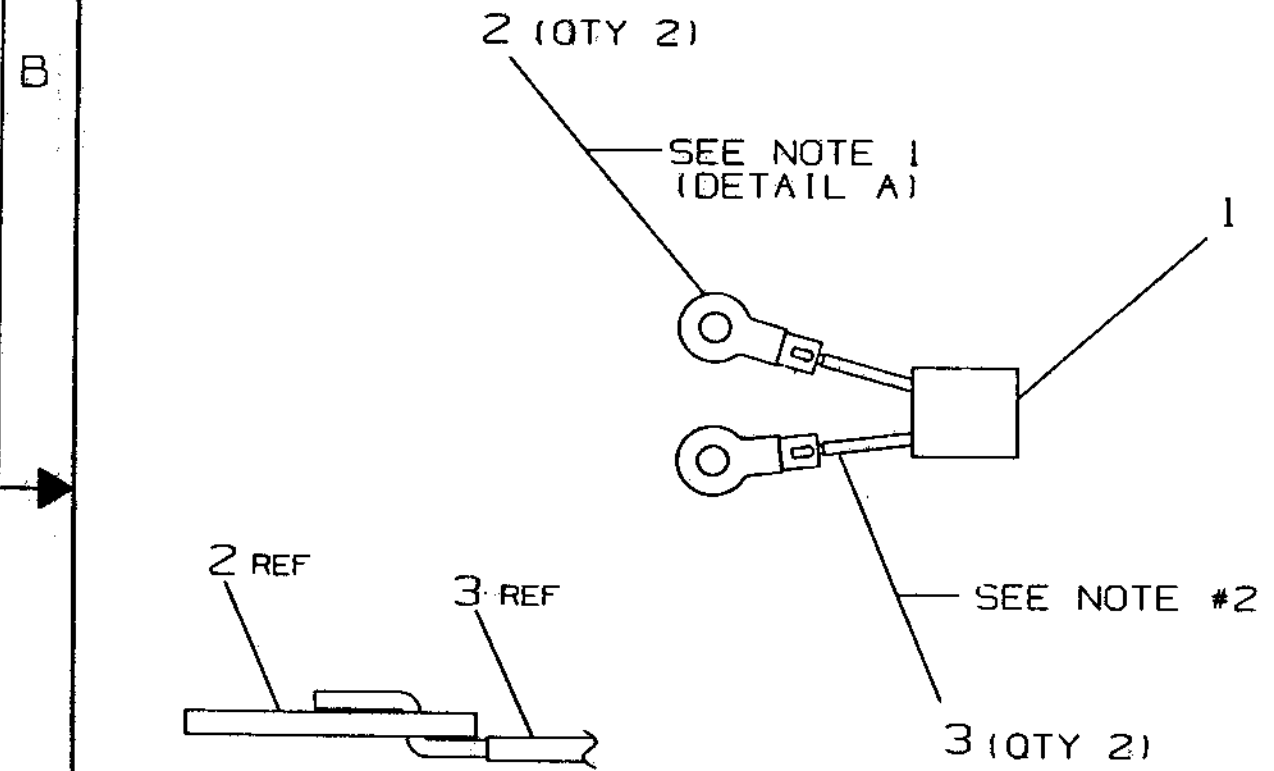


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8 7021668-0-DBU VI 2  
 3000 3215

LEGEND		
PART NO	REV	VARIATION
7021668-01	B1	AS SHOWN

- NOTES:
1. SOLDER LEAD AS SHOWN.
  2. THE LENGTH OF ITEM #3 TO BE  $.80" \pm .05"$ .
  3. USE LABEL 9009255-01 TO MARK ASSY # ON CONTAINER FOR MANUFACTURING PROCESS.



LAYER #2: FORMAT LAYER  
 LAYER #1: WORK LAYER  
 FILENAME: 7021668-0-DBU  
 PLOT AT: 1.00

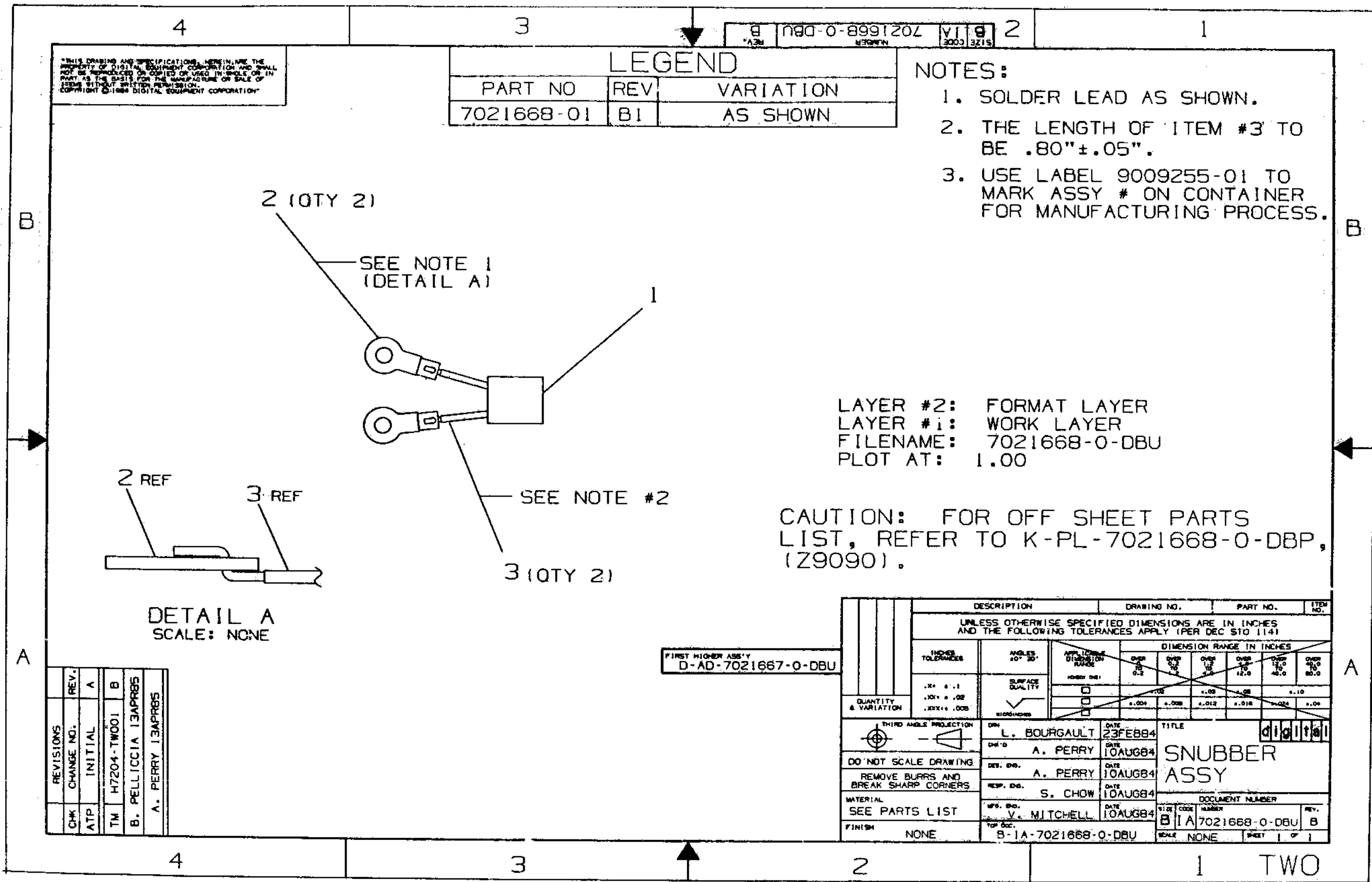
CAUTION: FOR OFF SHEET PARTS LIST, REFER TO K-PL-7021668-0-DBP, (Z9090).

DETAIL A  
 SCALE: NONE

REVISIONS	REV.	INITIAL
CHK	A	
ATP	A	
TM	H7204-TW001	B
	B. PELLICCIA	13APR85
	A. PERRY	13APR85

FIRST HIGHER ASSY  
 D-AD-7021667-0-DBU

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	ANGLES 10° 30'	DIMENSION RANGE IN INCHES	
		OVER 0.0	OVER 0.0
		OVER 0.0	OVER 0.0
APPL. TO DIMENSION SURFACE	APPL. TO DIMENSION SURFACE	APPL. TO DIMENSION SURFACE	APPL. TO DIMENSION SURFACE
QUANTITY & VARIATION	SURFACE QUALITY	APPL. TO DIMENSION SURFACE	APPL. TO DIMENSION SURFACE
THIRD ANGLE PROJECTION	DATE	TITLE	
DO NOT SCALE DRAWING	DATE	DOCUMENT NUMBER	
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	REV.	
MATERIAL	DATE	SCALE	
SEE PARTS LIST	DATE	SHEET	
FINISH	DATE	OF	



AUTOMATED BY PRTLST.5R(55)

P A R T S L I S T

SHEET A1 OF 41

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION
					VARIATION REVISION LEVEL:	B1
1	1	A-PS-1920316-0-0	1920316-01		RC NETWORK 1-10 OHM 1-.01MFD	1
2	2		9007815-00		TERM,LUG 1/4STUD LOCKING	2
3	3	SEE NOTE 1	9107278-09		TUBING,TEFLON .042ID	A/R

4 NOTE: 1.) LENGTH OF ITEM #3 TO BE .80 INCHES +.05 INCHES, -.05 INCHES.

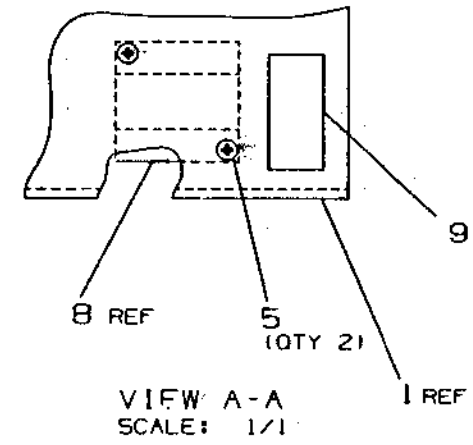
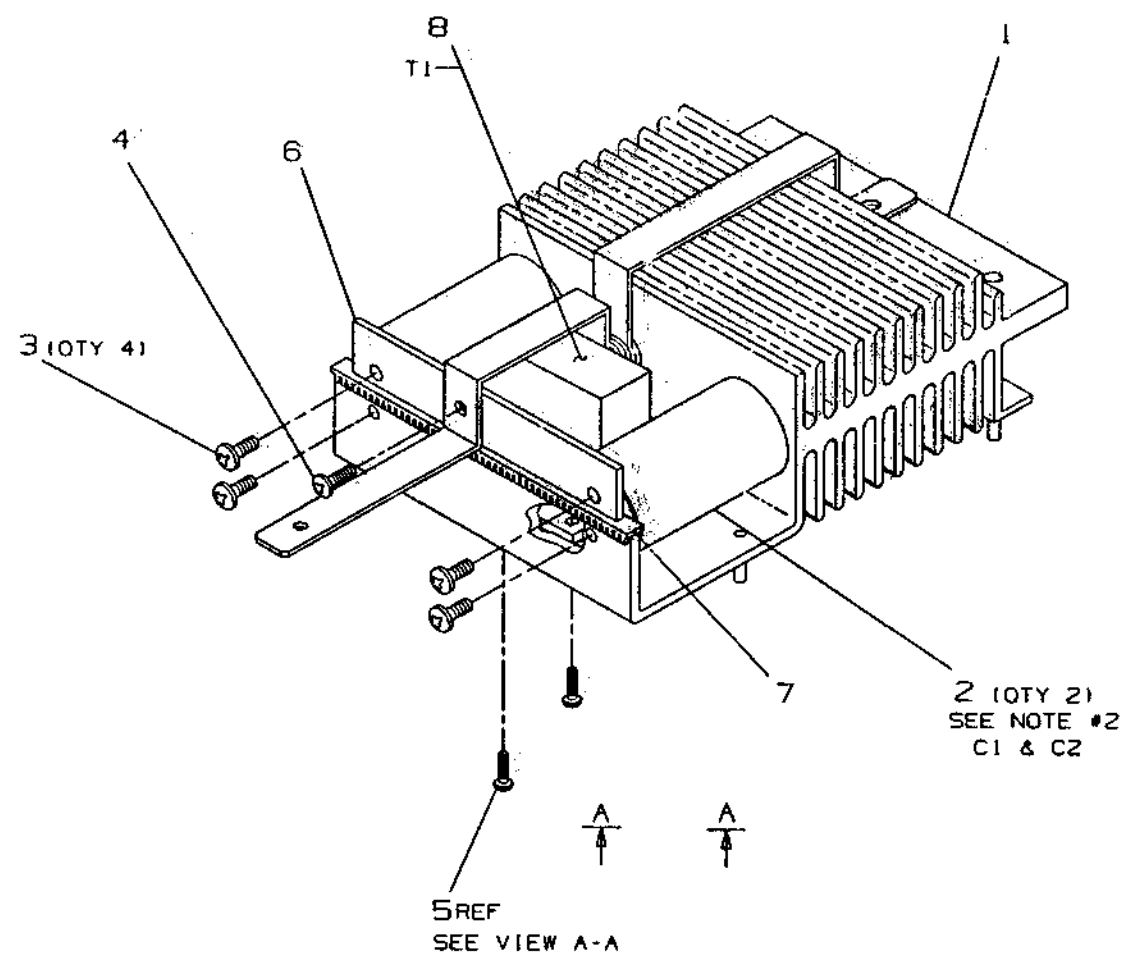
REVISION HISTORY			BASIC PART NO: 7021668			
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: L. BOURGALT	DATE: 14-AUG-84	D I G I T A L
---	INITIAL	A	SECTION VARIATION INDEX	CHK'D: A. PERRY	DATE: 14-AUG-84	TITLE PARTS LIST
AP	H7204-TW001	B	(A)01	DES.ENG: A. PERRY	DATE: 14-AUG-84	DOCUMENT NUMBER
			(B)	RESP.ENG.: MAN W. CHOW	DATE: 14-AUG-84	SIZE CODE NUMBER REV
			(C)	MFG.ENG.: V. MITCHELL	DATE: 14-AUG-84	K PL 7021668-0-DBP B
			(D)	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	RELEASE DATE: 10-SEP-85
			(E)	E-AD-H7203-A-DBU	B-IA-7021668-0-DBU	FILE NAME: Z9090B.PLS
			(F)			EDIT # 9

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LEGEND		
PART NO	REV	VARIATION
7021667-01	B1	AS SHOWN

- NOTES:
- TORQUE ALL SCREWS PER DEC A-SP-7665328-0-0.
  - NEGATIVE SIDE OF CAPS ITEM #2 TO BE CONNECTED TO CAP BUSS ITEM #6.



LAYER #2: FORMAT LAYER  
 LAYER #1: WORK LAYER  
 FILENAME: 7021667-0-DBU  
 PLOT AT: 1.00

CAUTION: FOR OFF SHEET PARTS LIST, REFER TO K-PL-7021667-0-DBP, (Z9089).

REV	CHG	NO.	INITIAL	DATE
A				
B				
C				
D				

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	DIMENSION RANGE IN INCHES		
ANGLES	OVER 0.1	OVER 0.2	OVER 0.3
SURFACE QUALITY	1.00	1.012	1.015
QUANTITY & VARIATION	E-1A-H7203-A-DBU		
THIRD ANGLE PROJECTION	DATE: 22 FEB 84	TITLE: HEAT SINK ASSY	
DO NOT SCALE DRAWING	DESIGNER: A. PERRY	DATE: 21 AUG 84	
REMOVE BURRS AND BREAK SHARP CORNERS	REVISION: MAN W. CHOW	DATE: 21 AUG 84	
MATERIAL: SEE PARTS LIST	DATE: 21 AUG 84	DOCUMENT NUMBER: D-AD-7021667-0-DBU	
FINISH: NONE	DATE: 21 AUG 84	SCALE: 1/1	

D-AD-7021667-0-DBU

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1 A-PS-1222726-0-0	12-22726-01		HEAT SINK,SCHOTTKY	1	
2	2 A-PS-1014338-0-0	10-14338-00		15,000 MFD 7.5V +/-20% ALU	2	C1,C2
3	3	90-09228-10		SCREW,SEMS PAN PHIL 10-	4	
4	4	90-10174-01		SCREW,SEMS PAN PHIL 8-	1	
5	5	90-09984-02		SCREW,SEMS PAN PHIL 6-	2	
6	6 B-IA-7430160-0-DBU	74-30160-01		BUS,CAPACITOR	1	
7	7 #SEE NOTE	90-07622-00		GROMMET,CATERPILLAR POLYAMIDE	A/R	
8	8	16-22782-01		CHOKE,OUTPUT FILTER	1	T1
9	9	90-09255-03		LABEL,P.S./SUB.ASSY ID	1	
10	10 BLANK			*** THIS ITEM IS NOT USED ***	-	

1 GEN: QUANTITY OF ITEM #7 TO BE 4.25 INCHES.

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A		DRN: L. BOURGAULT		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	CHK'D:	DATE:	TITLE	DOCUMENT NUMBER	SIZE	CODE
---	INITIAL	A	[A] 01 [M]	A. PERRY	14-AUG-84	HEAT SINK ASSY			
AP	H7204-TW001	B	[B] [N]	A. PERRY	14-AUG-84				
AP	H7203-TW001	C	[C] [P]	A. PERRY	14-AUG-84				
JA	7021667-LK001	D	[D] [Q]						
			[E] [R]						
			[F] [S]						
			[H] [T]	MAN W. CHOW	14-AUG-84				
			[J] [V]						
			[K] [W]	V. MITCHELL	14-AUG-84				
			[L] [Y]						
		BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
		7021667		E-AD-H7203-A-DBU		E-AD-7021667-0-DBU		Z9089D.PLS	
								EDIT #	
								1	

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\*\*\*\*\* FIELD MAINTENANCE PRINT SET \*\*\*\*\*

TABLE OF CONTENTS

B-TC-H7204-B-1	FIELD MAINTENANCE PRINT SET
E-UA-H7204-0-0	H7204-B POWER SUPPLY
K-PL-H7204-B-DBP	H7204-B POWER SUPPLY
E-IA-7022127-0-0	POWER CORD ASSY.
K-PL-7022127-0-DBP	POWER CORD ASSY.
B-DD-H7204-B-0	H7204-B-POWER SUPPLY
E-UA-5415558-0-0	H7216 REGULATOR BD.
D-CS-5415558-0	H7216 REGULATOR BD.
B-DD-5415558-0-0	H7216 REGULATOR BD.
K-PL-5415558-0-DBP	H7216 REGULATOR BD.
E-UA-5415580-0-0	H7217 REGULATOR BD.
D-CS-5415580-0-1	H7217 REGULATOR BD.
B-DD-5415580-0-0	H7217 REGULATOR BD.
K-PL-5415580-0	H7217 REGULATOR BD.
D-UA-5416152-0-0	DISTRIBUTION BD.
D-CS-5416152-0-1	DISTRIBUTION BD.
B-DD-5416152-0-0	DISTRIBUTION BD.
K-PL-5416152-0-DBP	DISTRIBUTION BD.
E-IA-H7203-A-0	MOTHER BD. ASSY.
K-PL-H7203-A-DBP	MOTHER BD. ASSY.
E-UA-5416120-0-0	MOTHER BD.
D-CS-5416120-0-1	MOTHER BD.
B-DD-5416120-0-0	MOTHER BD.
K-PL-5416120-0-DBP	MOTHER BD.
E-AD-7020608-0-0	CHASSIS ASSY.
K-PL-7020608-0-DBP	CHASSIS ASSY.
E-AD-7021682-0-0	A/C MAJOR BD. ASSY.
K-PL-7021682-0-DBP	A/C MAJOR BD. ASSY.
E-AD-7021675-0-0	A/C ASSY.
K-PL-7021675-0-DBP	A/C ASSY.
D-AD-7021669-0-0	BUSS BARR ASSY.

UNIT VARIATIONS
H7204-BA
H7204-BB

FIELD MAINTENANCE PRINT SET

DIGITAL EQUIPMENT CORPORATION

PPINT SET ORDER NO. MP01762-01 REV A1

USED ON OPTION/MODEL	DRN.	DATE
	A PERRY	29 NOV. 84
	CHK'D	DATE
	A PERRY	29 NOV. 84
	PROJ. ENG.	DATE
	S. CHOW	29 NOV. 84
	FIELD SERV.	DATE
	D. ROGERS	29 NOV. 84
SHEET 1 OF 2		

digital

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TITLE: H7204-B POWER SUPPLY			
SIZE	CODE	NUMBER	REV
B	TC	H7204-B-1	A
DIST.			

TW

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\*\*\*\*\* FIELD MAINTENANCE PRINT SET \*\*\*\*\*

TABLE OF CONTENTS

K-PL-7021669-0-DBP BUSS BARR  
 B-IA-7021668-0-0 SNUBBER ASSY.  
 K-PL-7021668-0-DBP SNUBBER ASSY.  
 E-AD-7021667-0-0 HEATSINK ASSY.  
 K-PL-7021667-0-DBP HEATSINK ASSY.

UNIT VARIATIONS
H7204-BA
H7204-BB

FIELD MAINTENANCE  
PRINT SET

DIGITAL EQUIPMENT  
CORPORATION

PRINT SET ORDER NO.  
MP01762-01 REV A1

USED ON OPTION/MODEL	DRN.	DATE
		29 NOV. 84
	CHK'D	DATE
	A. PERRY	29 NOV. 84
	PROJ. ENG.	DATE
	S. CHOW	29 NOV. 84
	FIELD SERV.	DATE
	D. ROGERS	29 NOV. 84
SHEET 2 OF 2		

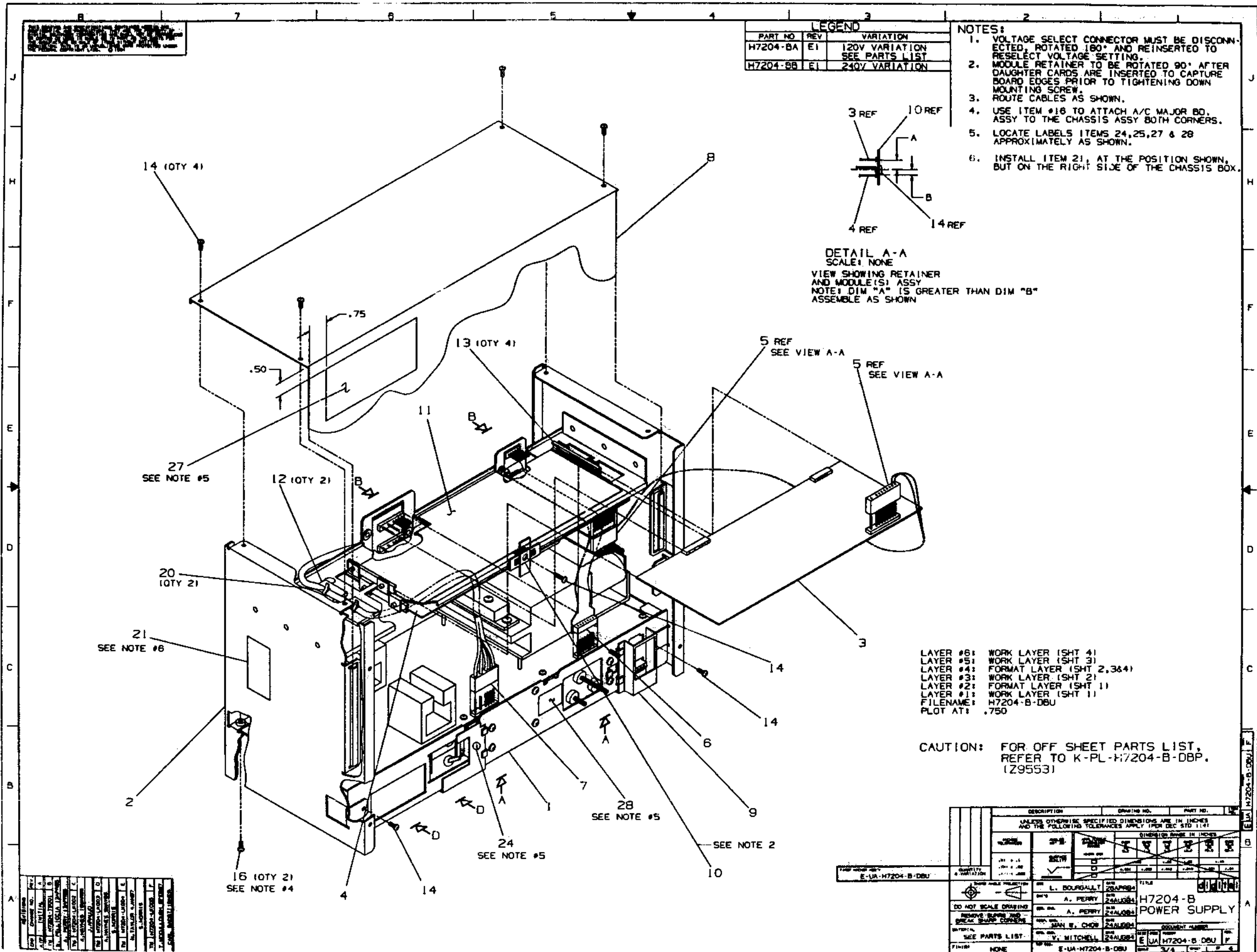
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digital

TITLE: H7204-B  
POWER SUPPLY

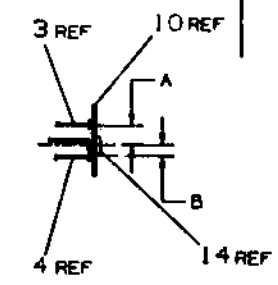
SIZE	CODE	NUMBER	REV
B	TC	H7204-B-1	A
DIST.			

TW



LEGEND		
PART NO	REV	VARIATION
H7204-BA	E1	120V VARIATION SEE PARTS LIST
H7204-BB	E1	240V VARIATION

- NOTES:
- VOLTAGE SELECT CONNECTOR MUST BE DISCONNECTED, ROTATED 180° AND REINSERTED TO RESELECT VOLTAGE SETTING.
  - MODULE RETAINER TO BE ROTATED 90° AFTER DAUGHTER CARDS ARE INSERTED TO CAPTURE BOARD EDGES PRIOR TO TIGHTENING DOWN MOUNTING SCREW.
  - ROUTE CABLES AS SHOWN.
  - USE ITEM #16 TO ATTACH A/C MAJOR BD. ASSY TO THE CHASSIS ASSY BOTH CORNERS.
  - LOCATE LABELS ITEMS 24, 25, 27 & 28 APPROXIMATELY AS SHOWN.
  - INSTALL ITEM 21, AT THE POSITION SHOWN, BUT ON THE RIGHT SIDE OF THE CHASSIS BOX.



DETAIL A-A  
SCALE: NONE  
VIEW SHOWING RETAINER AND MODULE(S) ASSY  
NOTE: DIM "A" IS GREATER THAN DIM "B" ASSEMBLE AS SHOWN

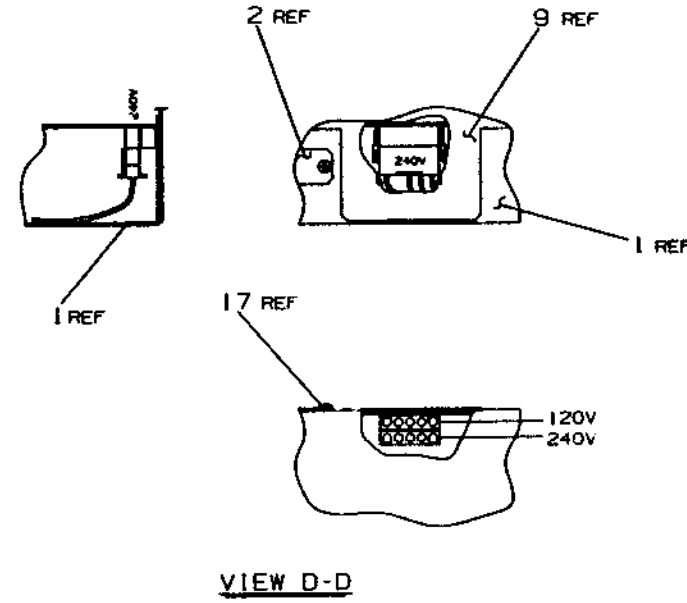
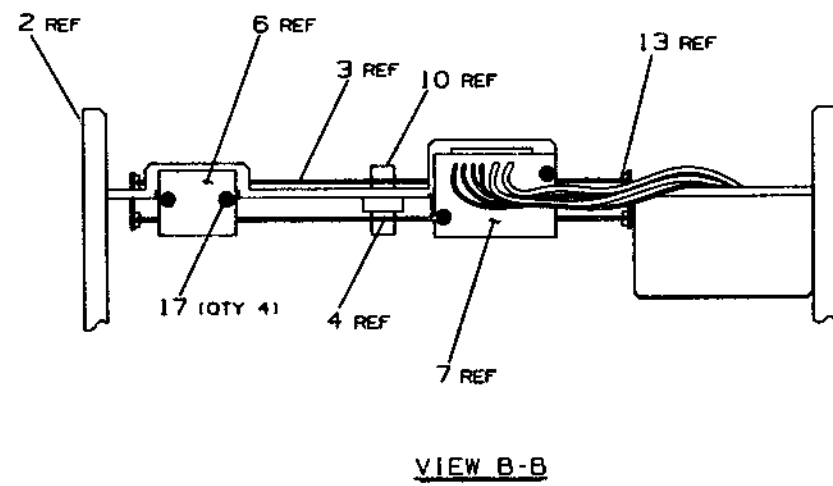
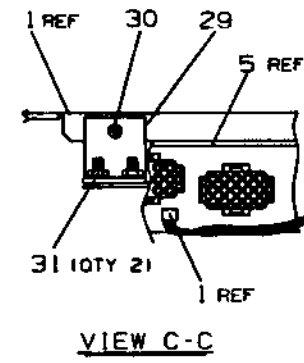
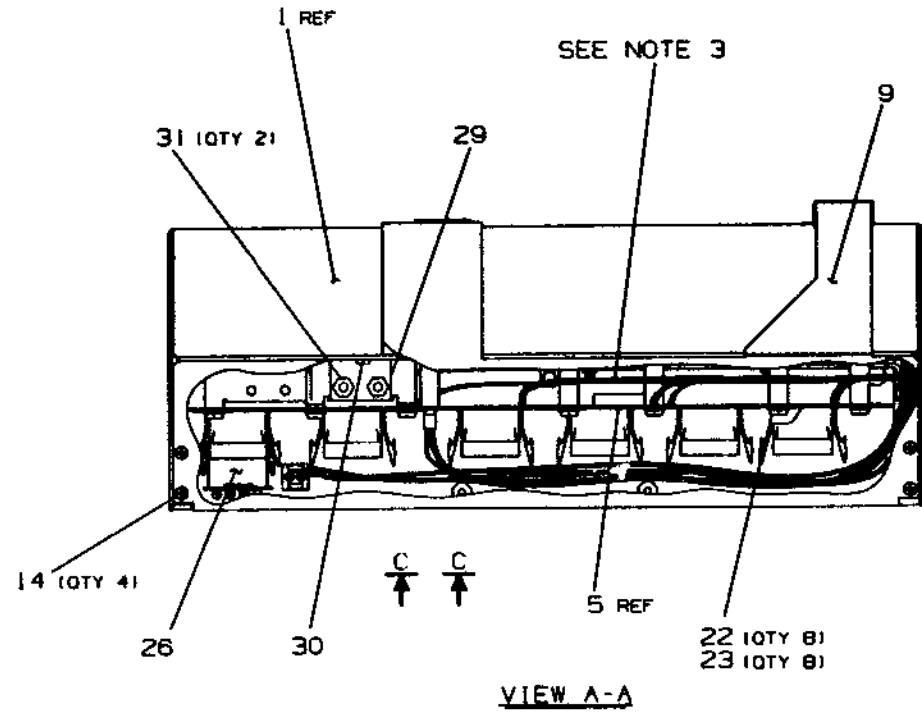
LAYER #6: WORK LAYER (SHT 4)  
LAYER #5: WORK LAYER (SHT 3)  
LAYER #4: FORMAT LAYER (SHT 2, 3&4)  
LAYER #3: WORK LAYER (SHT 2)  
LAYER #2: FORMAT LAYER (SHT 1)  
LAYER #1: WORK LAYER (SHT 1)  
FILENAME: H7204-B-DBU  
PLOT AT: .750

CAUTION: FOR OFF SHEET PARTS LIST, REFER TO K-PL-H7204-B-DBP, (29553)

REV	DATE	BY	CHKD	DESCRIPTION
1				ISSUED FOR CONSTRUCTION
2				REVISED TO ADD DIMENSIONS
3				REVISED TO ADD DIMENSIONS
4				REVISED TO ADD DIMENSIONS
5				REVISED TO ADD DIMENSIONS
6				REVISED TO ADD DIMENSIONS
7				REVISED TO ADD DIMENSIONS
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28				REVISED TO ADD DIMENSIONS
29				REVISED TO ADD DIMENSIONS
30				REVISED TO ADD DIMENSIONS

DESCRIPTION	QUANTITY	UNIT	REVISION	DATE	BY	CHKD	DESCRIPTION																								
E-UA-H7204-B-DBU																															
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20/08/84	V. MITCHELL		REVISED TO ADD DIMENSIONS																												

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UNLESS INDICATED OTHERWISE  
CLASSIFICATION 13526 UNCLASSIFIED EXEMPT FROM E.O. 13526



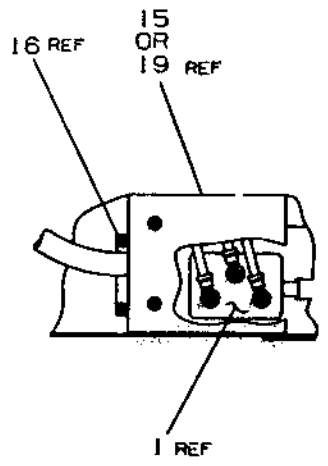
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LAYER #5: WORK LAYER (SHT 3)  
LAYER #4: FORMAT LAYER (SHT 2,3&4)  
LAYER #3: WORK LAYER (SHT 2)  
LAYER #2: FORMAT LAYER (SHT 1)  
LAYER #1: WORK LAYER (SHT 1)  
FILENAME: H7204-B-DBU  
PLOT AT: .750

REVISION HISTORY		
DATE	REV. HISTORY	REV.

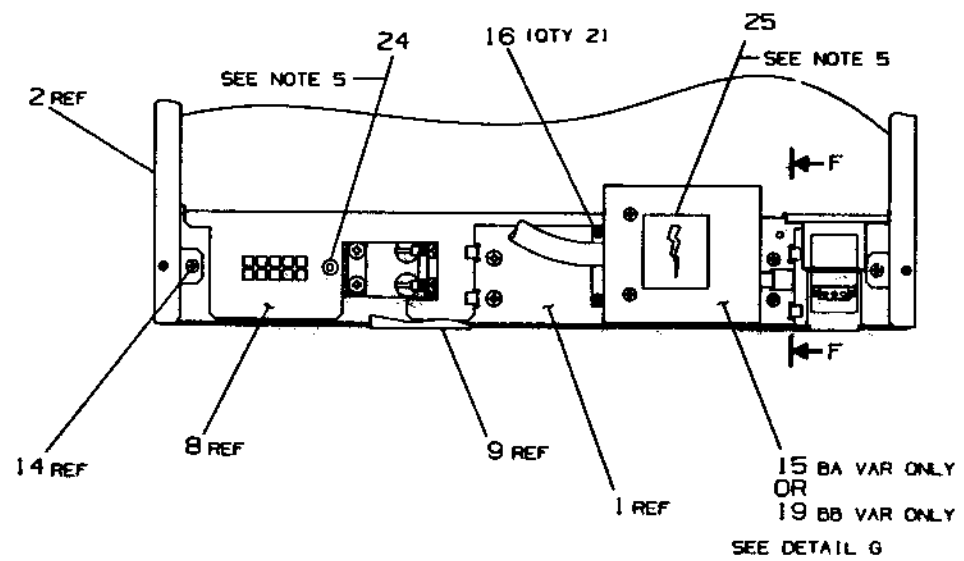


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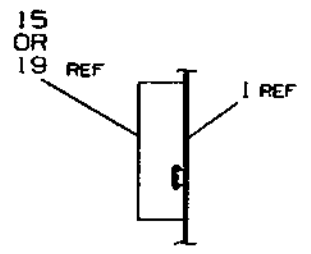
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DETAIL G



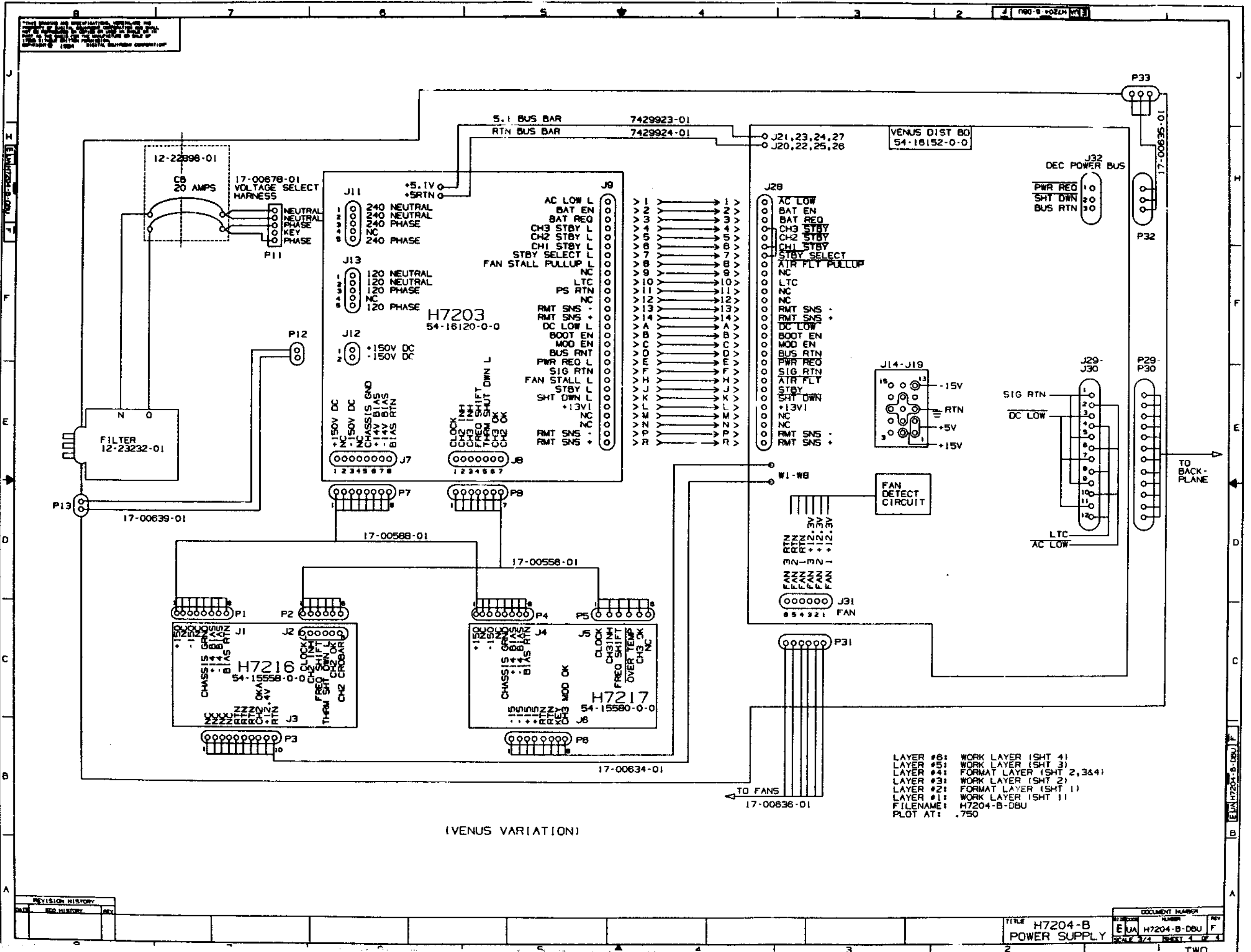
VIEW E-E



VIEW F-F

LAYER #0: WORK LAYER (SHT 4)  
 LAYER #1: WORK LAYER (SHT 3)  
 LAYER #2: WORK LAYER (SHT 2, 3, 4)  
 LAYER #3: WORK LAYER (SHT 2)  
 LAYER #4: WORK LAYER (SHT 1)  
 LAYER #5: WORK LAYER (SHT 1)  
 FILENAME: H7204-B-DBU  
 PLOT AT: .750

REVISION HISTORY		
DATE	REV	DESCRIPTION



REV	DATE	BY	APP	DESCRIPTION

TITLE	H7204-B POWER SUPPLY
DOCUMENT NUMBER	EUA H7204-B-DBU F
SCALE	3/4
SHEET	4 OF 4

LINE	ITEM	TOP DOCUMENT	REV	DESCRIPTION	BA	BB	QUANTITY PER VARIATION/REVISION
					E1	E1	
1	1	E-AD-7021682-0-DBU	70-21682-02 D	A/C MAJOR BD ASSY	1	1	
2	2	E-IA-7020608-0-DBU	70-20608-01	CHASE ASSEMBLY	1	1	
3	3		H7216-A	+12V 3A SWITCHER FROM H7200 OR H72	1	1	
4	4		H7217-00	COMMUNICATION REGULATOR,+15V 5A,-1	1	1	
5	5		54-16152-01	POWER DISTRIBUTION FOR H7204 POWER	1	1	
6	6		17-00556-01	WIRE HARN ASSY 07COND 26AWG P+S C0	1	1	
7	7		17-00588-01	HARNESS,WIRE 6COND TERM BOTH ENDS	1	1	
8	8	E-MD-7429749-0-DBU	74-29749-01	COVER, CHASSIS	1	1	
9	9	D-MD-7430190-0-DBU	74-30190-01	COVER,DISTRIBUTION	1	1	
10	10	B-MD-7430087-0-DBU	74-30087-01	RETAINER,MODULE	1	1	
11	11		36-17973-04	LABEL,INSULATOR ADH 10.5 X 2.80	1	1	
12	12		90-08264-00	MOUNT, CABLE TIE, ADHESIVE BACKED,	2	2	
13	13		12-11375-02	GUIDE,CARD ,NYLON ,SNAP-IN	4	4	
14	14		90-09701-00	SCREW,SEMS PAN PHIL 6-32	11	11	
15	15	E-IA-7022127-0-DBU	70-22127-01	POWER CORD ASSY.	1	-	
16	16		90-10155-00	SCREW,SEMS PAN PHIL 6-32	4	4	
17	17		90-09643-02	SCREW,SEMS PAN PHIL 4-40	4	4	
18	18	BLANK		*** THIS ITEM IS NOT USED ***	-	-	
19	19	E-IA-7022127-0-DBU	70-22127-02	POWER CORD ASSY	-	1	
20	20		90-07032-00	TIE,CABLE BUNDL,DIA 0-1-3/4"=101	2	2	
21	21		90-09255-00	LABEL, POWER SUPPLY, 2-15/16 " LG	1	1	
22	22		90-06656-00	WASHER,FLAT STEEL	8	8	
23	23		90-09984-02	SCREW,SEMS PAN PHIL 6-32	8	8	
24	24		36-15680-00	LABEL,ADHESIVE BACK,SWITCH POSITIO	1	1	
25	25		36-10267-00	LABEL,DANGER HIGH VOLTAGE,SMOOTH	1	1	
26	26		20-23924-01	ASSY,LOAD CONN W/13-220 OHM RESIST	1	1	
27	27		36-24103-01	LABEL,UNIT ID H7204	1	1	
28	28		36-24104-01	LABEL,TERMINAL ID	1	1	
29	29	C-MD-7422731-0-0	74-22731-01	BRACKET,MOUNTING	1	1	
30	30		90-09228-10	SCREW,SEMS PAN PHIL 10-32	1	1	
31	31		90-06565-00	NUT,HEX EXT TOOTH LCKWSHR 10-32X	2	2	

REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A	DRN: L. BOURGAULT	DIGITAL			
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 24-AUG-84				
---	INITIAL	A	{A} BA, BB		CHK'D: A. PERRY	TITLE PARTS LIST			
AP	H7204-TW001	B	{B}		DATE: 24-AUG-84	H7204-B POWER SUPPLY			
JA	H7204-LK002	C	{C}		DES.ENG: A. PERRY				
SN	H7204-LK003	D	{D}		DATE: 24-AUG-84	DOCUMENT NUMBER			
SN	H7204-LK004	E	{E}		RESP.ENG.: MAN W. CHOW	SIZE	CODE	NUMBER	REV
CB	H7204-LK005	F	{F}		DATE: 24-AUG-84	K	PL	H7204-B-DBP	F
			{H}		MFG.ENG: V. MITCHELL	RELEASE DATE: 05-MAR-87			
			{J}		DATE: 24-AUG-84	RELEASE STATUS: RELEASED			
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
H7204		E-UA-H7204-B-DBU		E-UA-H7204-B-DBU		Z9553F.PLS		1	

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# DRAWING DIRECTORY

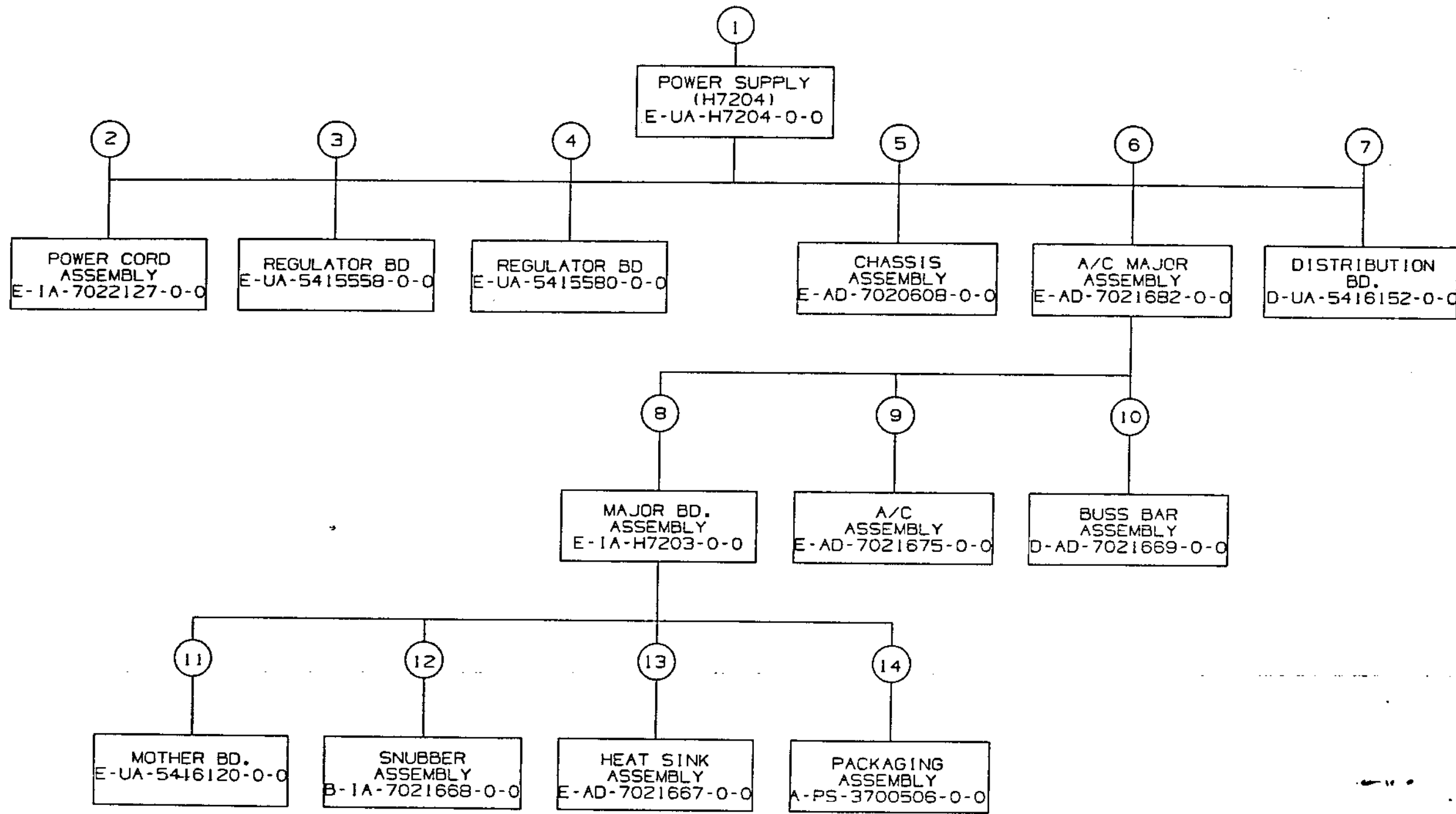
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UNIT VARIATIONS	
VAR	TITLE
BA	H7204-B POWER SUPPLY 120V
BB	H7204-B POWER SUPPLY 240V

REVISIONS			
CHK	CHANGE NO.	REV.	INITIAL
ATP		A	
TM	H7204-TWI	B	

*(This section is intentionally left blank for drawing content.)*

USED ON OPTION/MODEL B600	DRN. A. PERRY	DATE 21SEP84	TITLE H7204-B POWER SUPPLY
	CHK'D A. PERRY	DATE 21SEP84	
	PROJ. ENG. S. CHOW	DATE 21SEP84	
	PROD. V. MITCHELL	DATE 21SEP84	
SHEET 1 OF 3	TOP DOC. B-DD-H7204-B-DBU	DIST.	digital
	SIZE CODE B DD	NUMBER H7204-B-DBU	REV. B



TITLE: H7204-B POWER SUPPLY	SHEET 2 OF 3	SIZE CODE <b>B DD</b>	NUMBER H7204-B-DBU	REV. B
--------------------------------	--------------	--------------------------	-----------------------	-----------

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	
1	E-UA-H7204-0-0	H7204-B POWER SUPPLY	E/M	8	E-1A-H7203-0-0	MAJOR BD. ASSEMBLY	E/M	
	K-PL-H7204-0-DBP	POWER SUPPLY PARTS LIST	-		D-1A-742974B-0-0	MOTHER BD. BRACKET	M	
	E-MD-7430190-0-0	DISTRIBUTION COVER	M		C-MD-7430094-0-0	CAPACITOR BRACKET	M	
	E-MD-7429749-0-0	CHASSIS COVER	M					
	A-PS-1700556-0-0	FLEX CABLE	E					
	B-MD-7430087-0-0	MODULE RETAINER	M					
	A-PS-3615680-0-0	LABEL, SWITCH POSITION		9	E-AD-7021675-0-0	A/C ASSEMBLY	E/M	
	A-PS-3610267-0-0	LABEL, DANGER HIGH VOLTAGE			A-PS-1223232-0-0	LINE FILTER	E	
	A-PS-3624103-0-0	LABEL, UNIT IDENTIFICATION			E-1A-7429745-0-0	A/C BRACKET	M	
A-PS-3624104-0-0	LABEL, TERMINAL IDENTIFICATION		A-PS-1222896-0-0		CIRCUIT BREAKER	E		
			A-PS-1700678-0-0		VOLTAGE SELECT HARNESS	E		
2	E-1A-7022127-0-0	POWER CORD ASSEMBLY	E/M	A-PS-1700635-0-0	CABLE ASSEMBLY	E		
	C-MD-7430794-0-0	A/C COVER	M					
3	E-UA-5415558-0-0	H7216-A REGULATOR BD.	E					
4	E-UA-5415580-0-0	H7217 REGULATOR BD.	E	10	D-AD-7021669-0-0	BUSS BAR ASSEMBLY	M	
					D-1A-7429923-0-0	+5 BUSS	M	
					D-1A-7429924-0-0	RETURN BUSS	M	
5	E-AD-7020608-0-0	CHASSIS ASSEMBLY	M	11	E-UA-5416120-0-0	MOTHER BD.	E/M	
	E-1A-7429743-0-0	RIGHT PANEL	M					
	E-1A-7429744-0-0	LEFT PANEL	M	12	B-1A-7021668-0-0	SNUBBER ASSEMBLY	E/M	
	E-1A-7429746-0-0	MODULE BRACKET	M					
	C-MD-7429747-0-0	BAFFLE BRACKET	M					
6	E-AD-7021682-0-0	A/C MAJOR BD ASSEMBLY	E/M	13	E-AD-7021667-0-0	HEAT SINK ASSEMBLY	E/M	
	C-MD-7430833-0-0	MYLAR INSULATOR	E/M		A-PS-1222726-0-0	HEAT SINK		
					C-1A-7430160-0-0	CAPACITOR BRACKET	M	
7	D-UA-5416152-0-0	DISTRIBUTION BD.	E	14	A-PS-3700506-0-0	PACKAGING ASSEMBLY	-	
	A-PS-1700634-0-0	POWER HARNESS	E					

TYPE: E ELECTRICAL  
M MECHANICAL  
E/M ELECTRO/MECHANICAL



TITLE: H7204-B  
POWER SUPPLY

SHEET 3 OF 3

SIZE CODE  
B DD

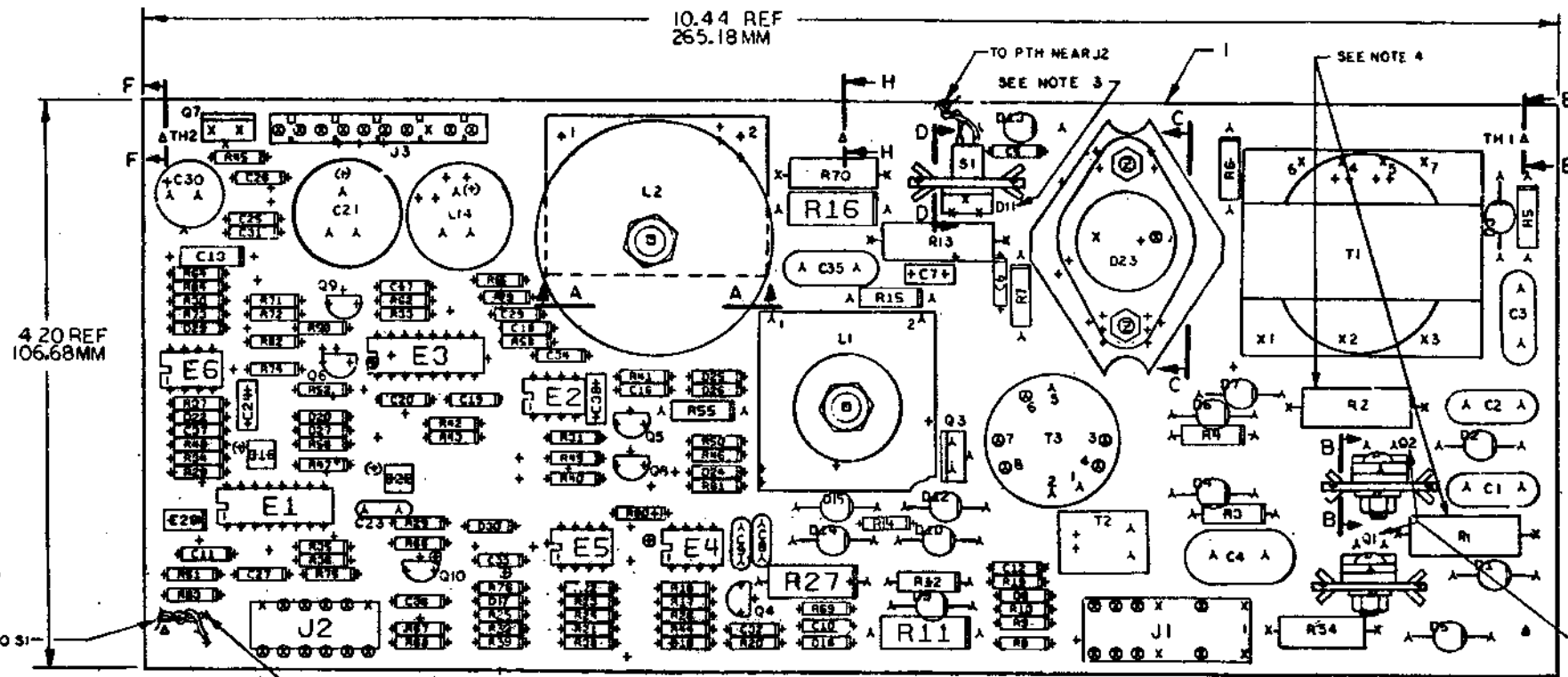
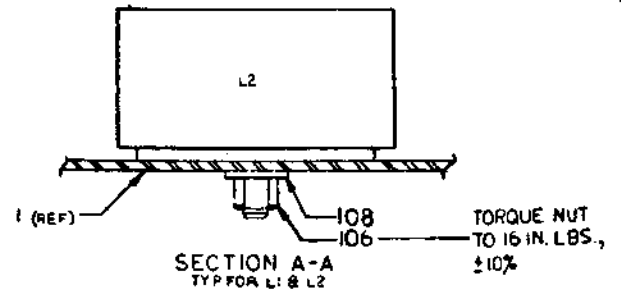
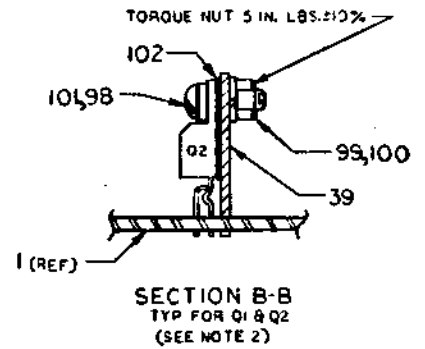
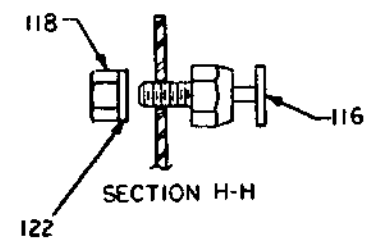
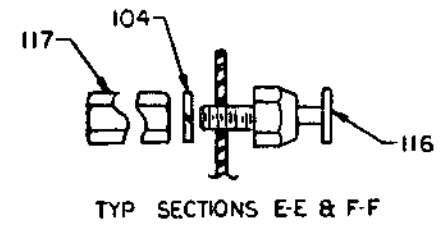
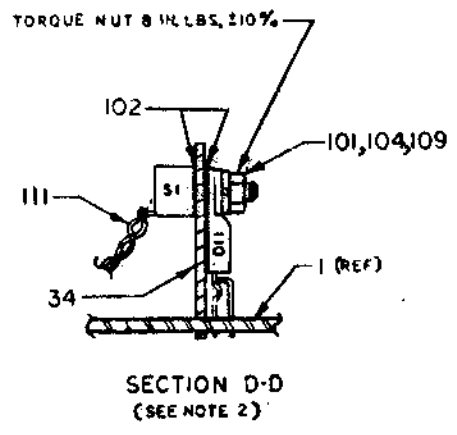
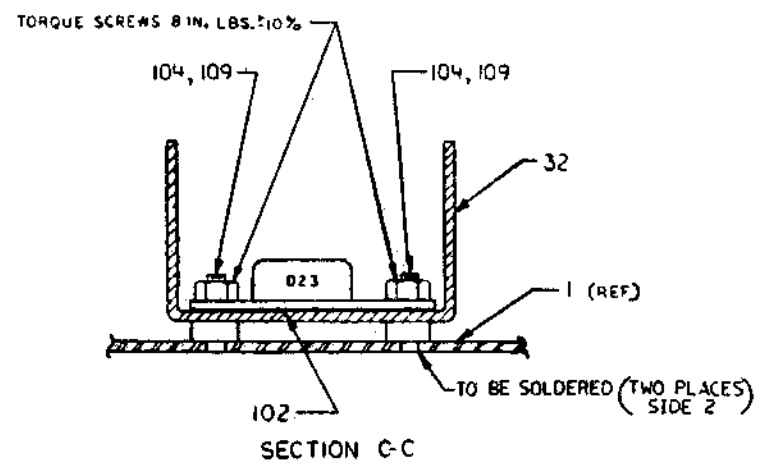
NUMBER  
H7204-B-DBU

REV.  
B

DIA 5415558-0-0

1. THE PARTS OF THIS DRAWING ARE TO BE MANUFACTURED TO THE DIMENSIONS AND TOLERANCES SHOWN UNLESS OTHERWISE SPECIFIED.  
2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.  
3. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE HOLD TO THE CLOSEST TOLERANCE PERMITTED BY THE MANUFACTURING PROCESS.  
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE HOLD TO THE CLOSEST TOLERANCE PERMITTED BY THE MANUFACTURING PROCESS.  
5. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE HOLD TO THE CLOSEST TOLERANCE PERMITTED BY THE MANUFACTURING PROCESS.

COMPONENT SIDE VIEW



- NOTES:
1. B3 UL REQUIREMENT IS HPWR.
  2. ASSEMBLE ALL ITEMS BEFORE INSTALLING ON BO.
  3. ADD STRAIN RELIEF AS SHOWN IN SECTION B-B.
  4. RAISE OFF BO JOISTS.
  5. BLK LD TO TOP HOLE.

STEP	AXIS	STEP	TIMES
REP. 1	X	1	1
REP. 2	X	1	1

CHANGE NO.	REV.	DATE	BY	CHKD.
1	1	2-22-68	J.P. BRUNSA	
2	1	2-22-68	J.P. BRUNSA	
3	1	2-22-68	J.P. BRUNSA	
4	1	2-22-68	J.P. BRUNSA	
5	1	2-22-68	J.P. BRUNSA	
6	1	2-22-68	J.P. BRUNSA	
7	1	2-22-68	J.P. BRUNSA	
8	1	2-22-68	J.P. BRUNSA	
9	1	2-22-68	J.P. BRUNSA	
10	1	2-22-68	J.P. BRUNSA	

ETCH REV.	DATE	BY	CHKD.
1	2-22-68	J.P. BRUNSA	
2	2-22-68	J.P. BRUNSA	
3	2-22-68	J.P. BRUNSA	
4	2-22-68	J.P. BRUNSA	
5	2-22-68	J.P. BRUNSA	
6	2-22-68	J.P. BRUNSA	
7	2-22-68	J.P. BRUNSA	
8	2-22-68	J.P. BRUNSA	
9	2-22-68	J.P. BRUNSA	
10	2-22-68	J.P. BRUNSA	

SIGNATURES	DATE	TITLE
DRN. R. W. L. D. G.	2-22-68	
CHK. D. & T. GERRY	2-22-68	
MECH. ENG. J. P. BRUNSA	2/22/68	
PROJ. ENG. J. P. BRUNSA	2/22/68	
PROD. (J. P. BRUNSA)	2/22/68	

digital

TITLE - 5.3V, 12V REGULATOR

SCALE 2/1

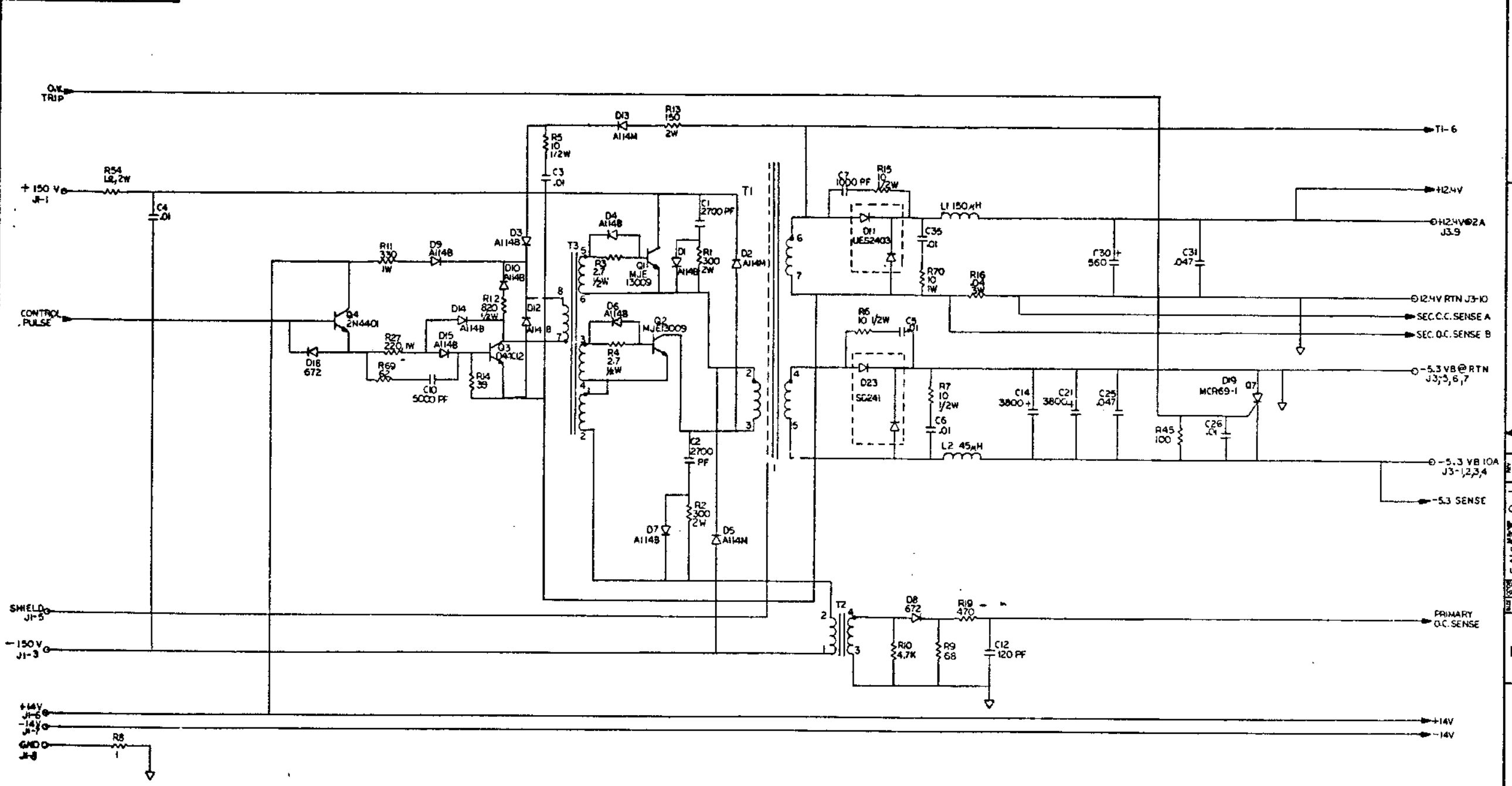
SMT. 1 OF 1

NEXT HIGHER ASSY. B-DD-5415558-0

SIZE CODE NUMBER REV  
0 UA 5415558-0-0 C

8 6 5 4 3 2 1 WQ#173171

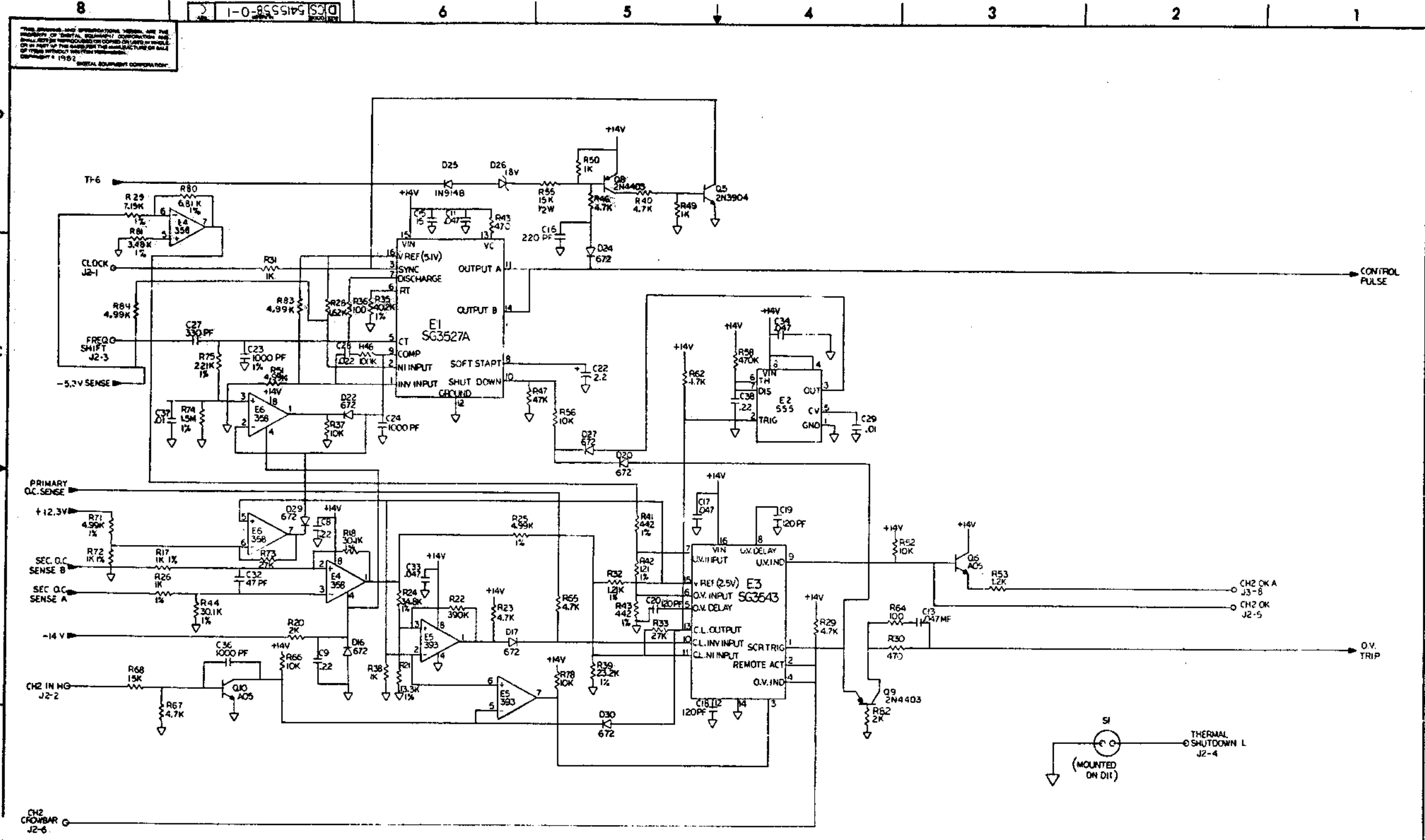
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REVISION HISTORY			
DATE	ECO NUMBER	BY	REV
11/14/62	541558-1-0001	B	1
11/14/62	541558-1-0002	C	2
11/14/62	541558-1-0003	C	3
11/14/62	541558-1-0004	C	4
11/14/62	541558-1-0005	C	5
11/14/62	541558-1-0006	C	6
11/14/62	541558-1-0007	C	7
11/14/62	541558-1-0008	C	8

DATE	11-14-62	TITLE	H7216 digital
DATE	4/14/63	TITLE	5.3, 12V
DATE	4/14/63	TITLE	REGULATOR
DATE	11-14-63	TITLE	
DOCUMENT NUMBER			
REV	001	DOC	D.CS 541558-0-1
REV	002	DOC	
B-DD-541558-0			
REV 1 OF 2			





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REVISION HISTORY		
DATE	REV. NUMBER	REV.

TITLE		DOCUMENT NUMBER	
H7216 -5.3, 12V REGULATOR		D/CS 5415558-0-1	
SCALE	2/1	SHEET	2 OF 2

D/CS 5415558-0-1

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS															
				A	B	B	C												
D-MD-5015557-0-0	3		DRILL & ETCH DRAWING	A	B	B	C												
		5015557-00	ETCH BOARD (SEE NOTE 1)	A	B	B	C												
D-UA-5415558-0-0	1		UNIT ASSEMBLY DRAWING	A	B	B	C												
D-EC-5015557-0-0	3		ETCH CUT DRAWING	A	B	B	C												
D-CS-5415558-0-1	2		CIRCUIT SCHEMATIC	A	B	B	C												
K-PC-5415558-0-DBG	-		PC. DESIGN DATABASE	A	B	B	NA												
K-PL-5415558-0-DBP	4		PARTSLIST	A	B	B	C												
		5415558-00	PART REVISION				CI												
		5415558-01	PART REVISION				AI	BI											
D-UA-5415558-1-0	2		UNIT ASSEMBLY DRAWING		A	B													
D-EC-5015557-1-0	2		ETCH CUT DRAWING		A	B													
D-CS-5415558-1-0	2		CIRCUIT SCHEMATIC		A	B													
K-PL-5415558-1-DBP	3		PARTS LIST		A	B													
K-PC-5415558-1-DBA	-		PC DATA BASE					C											

**NOTES:**  
 1. 5015557 ETCH BOARD IS USED ON BOTH THE  $\phi\phi$  AND THE  $\phi I$  MODULES.

DATE	CHG NO.	REV.	REVISIONS			
			A	B	C	D
4/83	INIT					
6/83	TW001					
10/84	TW002					
11/85	TW003					

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USED ON OPTION/MODEL		DRN	1-4-83	TITLE	12V REGULATOR		
H7202-D		Thomas F. Wald					
H7216-A		Thomas F. Wald	1-4-83				
		ENG	4/14/83	SIZE	CODE	NUMBER	REV.
		PROD.	10-15-83	B	DD	5415558-0	D
				SHEET	1	OF	1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						00		
						C1		
1	1	D-MD-5015557-0-0	50-15557-00		DRILL AND ETCH CUT BOARD	1		
2	2		10-13466-26		120 PFD 50V +/- 5% NPO C	4		C12,C18-C20
3	3		10-12607-00		560 MFD 20V +100/-10% ALU	1		C30
4	4		10-13466-16		0.010MFD 50V +/-10% X7R C	5		C5,C6,C26,C29,C37
5	5		10-10274-00		0.22 MFD 50V +80/-20% Z5U C	2		C8,C9
6	6		10-12784-00		0.047MFD 50V +80/-20% Z5U C	6		C11,C17,C25,C31,C33,C34
7	7		10-11847-01		0.010MFD 400V +/-10% POLYP	2		C3,C35
8	8		10-13466-28		1000 PFD 50V +/- 5% NPO C	1		C36
9	9		10-14169-00		1000 PFD 100V +/- 1% 200PP	1		C23
10	10		10-13466-18		330 PFD 50V +/- 5% NPO C	1		C27
11	11		10-14277-00		3800 MFD 6.3V +75/-10% ALU	2		C14,C21
12	12		10-17426-01		2700 PFD 250V +/-10% POLYP	2		C1,C2
13	13		10-00042-00		1000 PFD 100V +/- 5% 200PP	2		C7,C24
14	14		10-13466-20		5000 PFD 50V +/-10% X7R C	1		C10
15	15		10-11847-02		0.010MFD 600V +/-10% POLYP	1		C4
16	16		10-13466-07		220 PFD 50V +/- 5% NPO C	1		C16
17	17		10-13466-46		0.047MFD 50V +/-10% X7R C	1		C13
18	18		10-18000-00		2.2 MFD 63V +50/-20% ALU	1		C22
19	19		10-18000-01		15 MFD 25V +50/-20% ALU	1		C15
20	20		10-13466-24		47 PFD 50V +/- 5% NPO C	1		C32
21	21		10-10978-40		0.22 MFD 50V +/-10% X7R C	1		C38
22	22		10-11683-00		0.022MFD 50V +/-10% X7R C	1		C28
23	23		11-05275-00		PIV= 60 IO=300 MA -15NS	10		D8,D16-D18,D20,D22,D24,D27,D29, CONT D30
24	24		11-12595-01		PIV= 200 IO= 1.00A AXIAL	10		D1,D3,D4,D6,D7,D9,D10,D12,D14, CONT D15
25	25		11-12595-02		PIV= 600 IO= 1.00A AXIAL	3		D2,D5,D13
26	26		11-17555-00		RECT.ULTRA FAST PIV= 150 IO= 3.0	1		D11
27	27		11-16323-00		SCHOTTKY PIV= 45 IO=30.00A	1		D23
28	28		11-09517-00		PIV= 75 IO=150 MA - 4NS 1N914B	1		D25
29	29		11-10766-00		VZ= 18.0 5% 500M2 1N5248B D	1		D26
30	30		11-17061-00		THYRISTOR, VDRM= 25 MC	1		Q7

REVISION HISTORY			KPL MODULE FORMAT SECTION A OF A		DRN: F. GAROFALO	D I G I T A L					
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE: 23-JUL-82	TITLE PARTS LIST					
---	INITIAL	A	{A}	00	{M}	CHK'D: F. GERRY	H7216				
BB	5415558-TW001	B	{B}		{N}	DATE: 23-JUL-82					
SK	5415558-TW003	C	{C}		{P}	DES.ENG: W. BAUSHA	DOCUMENT NUMBER				
			{D}		{Q}	DATE: 23-JUL-82	SIZE	CODE	NUMBER	REV	
			{E}		{R}	RESP.ENG.: W. BAUSHA	K	PL	5415558-0-DBP	C	
			{F}		{S}	DATE: 23-JUL-82	RELEASE DATE: 22-MAY-86				
			{H}		{T}	MFG.ENG: RADEMES GARCIA	RELEASE STATUS: RELEASED				
			{J}		{V}	DATE: 14-APR-83					
			{K}		{W}						
			{L}		{Y}						
BASIC PART NUMBER:			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #		
5415558			D-UA-5415558-0-0		B-DD-5415558-0-0		Z3927C.PLS		22		

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\*\*\* DOCUMENT CONVERTED TO VAX \*\*\*

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VAR/REV	REFERENCE DESIGNATORS
						00		
						C1		
31	31	#BLANK			*** THIS ITEM IS NOT USED ***	-		
32	32		12-13426-08		HEAT SINK, T0-3 1.880X01.4	1		
33	33				*** THIS ITEM IS NOT USED ***	-		
34	34		12-15228-02		HEAT SINKS, T0-220 01.25X0.87	1		
35	35		12-17990-04		CONN, P+S 06SKT(1X06) .156CC	1		J2
36	36		12-16122-09		PCB, HEADER 10PIN(1X10) .156CC KEY	1		J3
37	37		12-17990-01		CONN, P+S 08SKT(1X06) .156CC	1		J1
38	38		12-18375-00		THERMOSTAT, 0@170, C@220, NORM OPEN	1		S1
39	39		12-15228-01		HEAT SINKS, T0-220 0.920X0.87	2		
40	40		13-00229-00		100.0 .25 W 5.0 % CF	3		R36, R45, R64
41	41		13-19470-20		220.0 1.0 W 5.0 % M.OXIDE	1		R27
42	42		13-19471-21		300.0 2.0 W 5.0 % M.OXIDE	2		R1, R2
43	43		13-19470-23		330.0 1.0 W 5.0 % M.OXIDE	1		R11
44	44		13-00316-00		470.0 .25 W 5.0 % CF	3		R19, R30, R34
45	45		13-00365-00		1.0 K .25 W 5.0 % CF	4		R31, R38, R49, R50
46	46		13-00447-00		4.70 K .25 W 5.0 % CF	8		R10, R23, R29, R40, R46, R62, R65, R67
47	47		13-00479-00		10.0 K .25 W 5.0 % CF	5		R37, R52, R56, R66, R78
48	48		13-00168-00		10.0 .50 W 5.0 % CF	4		R5-R7, R15
49	49		13-13844-00		221.0 K .25 W 1.0 % RN55D-F10	1		R75
50	50		13-01320-00		1.20 K .25 W 5.0 % CF	1		R53
51	51		13-02377-00		39.0 .25 W 5.0 % CF	1		R14
52	52		13-00356-00		820.0 .50 W 10.0 % CF	1		R12
53	53		13-19471-16		150.0 2.0 W 5.0 % M.OXIDE	1		R13
54	54		13-20022-01		1.50 M .25 W 1.0 % RN55D-F10	1		R74
55	55		13-02957-00		121.0 .25 W 1.0 % RN55D-F10	1		R42
56	56		13-03114-00		1.0 K .25 W 1.0 % RN55D-F10	3		R17, R26, R72
57	57		13-14492-00		40.20 K .25 W 1.0 % RN55D-F10	1		R35
58	58		13-09444-00		2.70 .50 W 10.0 % CF	2		R3, R4
59	59		13-14551-00		442.0 .25 W 1.0 % RN55D-F10	2		R41, R43
60	60		13-00496-00		15.0 K .25 W 5.0 % CF	1		R68
61	61		13-00219-00		68.0 .25 W 5.0 % CF	1		R9
62	62		13-03156-00		34.80 K .25 W 1.0 % RN55D-F10	1		R24
63	63		13-13841-00		23.20 K .25 W 1.0 % RN55D-F10	1		R39
64	64		13-02177-00		47.0 K .25 W 5.0 % CF	1		R47
65	65		13-02388-00		2.0 K .25 W 5.0 % CF	2		R20, R82
66	66		13-05324-00		4.99 K .25 W 1.0 % RN55D-F10	5		R25, R51, R71, R83, R84
67	67		13-17515-00		.04 3.0 W 3.0 % WW	1		R16
68	68		13-17522-00		1.0 .25 W 5.0 % CF	1		R8
69	69		13-05346-00		27.0 K .25 W 5.0 % CF	2		R33, R73
70	70		13-14350-00		1.0 2.0 W 10.0 % FUSE	1		R54
71	71		13-11594-00		30.10 K .25 W 1.0 % RN55D-F10	2		R18, R44
72	72		13-12565-00		13.30 K .25 W 1.0 % RN55D-F10	1		R21
73	73		13-02466-00		100.0 K .25 W 5.0 % CF	1		R48
74	74		13-02871-00		1.21 K .25 W 1.0 % RN55D-F10	1		R32
75	75		13-16511-00		15.0 K .50 W 5.0 % CF	1		R55
76	76		13-02398-00		470.0 K .25 W 5.0 % CF	1		R58
77	77		13-12929-00		62.0 .25 W 5.0 % CF	1		R69
78	78		13-19255-04		10.0 1.0 W 5.0 % M.OXIDE	1		R70
79	79		13-14951-00		390.0 F .25 W 5.0 % CF	1		R22
80	80		13-05253-00		7.15 K .25 W 1.0 % RN55D-F10	1		R79

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							H7216		K	PL	5415558-0-DBP	C

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
						00 C1	
81	81		13-04870-00		6.81 K .25 W 1.0 % RN55D-F10	1	R80
82	82		13-05114-00		3.48 K .25 W 1.0 % RN55D-F10	1	R81
83	83		15-10705-00		XA 05 NPN 500MW SI 60 50 P	2	Q6,Q10
84	84		15-09524-00		2N 3904 NPN 310MW SI 40 40 M	1	Q5
85	85		15-13489-00		2N 4401 NPN 350MW SI 40 20	1	Q4
86	86		15-12790-00		D 44C12 NPN 30W SI	1	Q3
87	87		15-17060-00		MJE13009 NPN 100W SI	2	Q1,Q2
88	88		15-13490-00		2N 4403 PNP 350MW SI-40 30	2	Q8,Q9
89	89		16-17450-00		PULSE XFMR,RATIO 40:3,3:1	1	T3
90	90		16-17557-01		XFMR,CURRENT RATIO 50:1	1	T2
91	91		16-17668-00		35.0 UH 20% 15A	1	L2
92	92		16-17667-00		200.0 UH 2A	1	L1
93	93		19-17908-00		LM 358N OP AMP DUAL LOW POWE	2	E4,E6
94	94		19-16819-00		3527A MODULATOR,REGULATING	1	E1
95	95		19-17059-00		3543 P.S. SUPERVISORY CIR	1	E3
96	96		19-14156-00		LM 393 VOLT.COMPARATOR DUAL	1	E5
97	97		19-11944-00		555CN TIMER,FUNCT.BLOCK	1	E2
98	98		90-06010-01		SCREW,MACH PAN PHIL 4-	2	
99	99		90-06556-00		NUT,HEX 4-40X .264AF SS/N	2	
100	100		90-06688-00		WASHER,HELICAL SPLIT SST	2	
101	101		90-09769-00		WASHER,RECTNGLR STEEL	3	
102	102		90-08268-00		COMPOUND, THERMAL JOINT	A/R	
103	103				*** THIS ITEM IS NOT USED ***	-	
104	104		90-07801-00		WASHER,HELICAL SPLIT SST	5	
105	105				*** THIS ITEM IS NOT USED ***	-	
106	106		90-08059-00		NUT,HEX SLF-LOCK NYL INS 10-32	2	
107	107	#BLANK			*** THIS ITEM IS NOT USED ***	-	
108	108		90-09968-00		WASHER,FLAT SST	2	
109	109		90-08957-00		NUT,HEX 6-32X .246AF SS/N	3	
110	110				*** THIS ITEM IS NOT USED ***	-	
111	111		91-07420-01		WIRE,TWP 22AWG( 07/30)IPVC 150V	A/R	
112	112		16-21268-01		XFMR P=360-420V 100W 33KHZ	1	T1
113	113		13-04862-00		1.62 K .25 W 1.0 % RN55D-F10	1	R28
114	114	#BLANK			*** THIS ITEM IS NOT USED ***	-	
115	115	#BLANK			*** THIS ITEM IS NOT USED ***	-	
116	116	B-MD-7425185-0-0	74-25185-00		SPACER,PCB	3	
117	117		90-06862-00		SPACER,THREADED HEX ALUM 6-3	2	
118	118		90-08185-00		NUT,HEX EXT TOOTH LCKWSHR 6-32	1	
119	119	#BLANK			*** THIS ITEM IS NOT USED ***	-	
120	120	#BLANK			*** THIS ITEM IS NOT USED ***	-	
121	121	#BLANK			*** THIS ITEM IS NOT USED ***	-	
122	122		90-06653-00		WASHER,FLAT STEEL	1	

1 GEN: ITEM 111 WILL HAVE A QUANTITY OF .66 FT

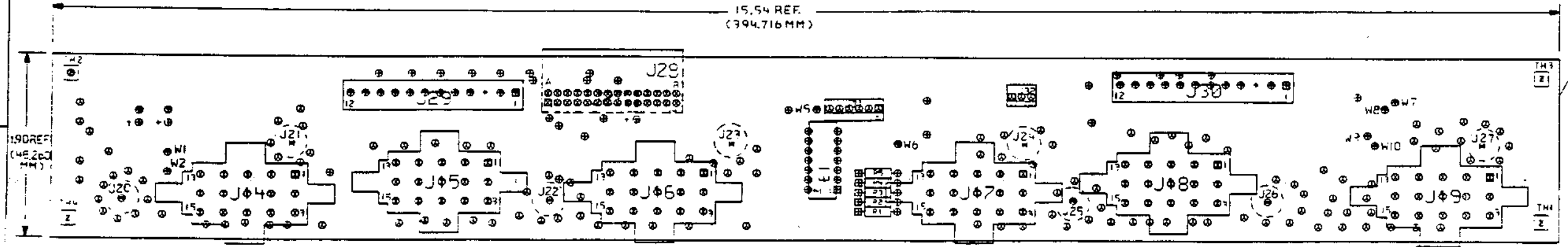
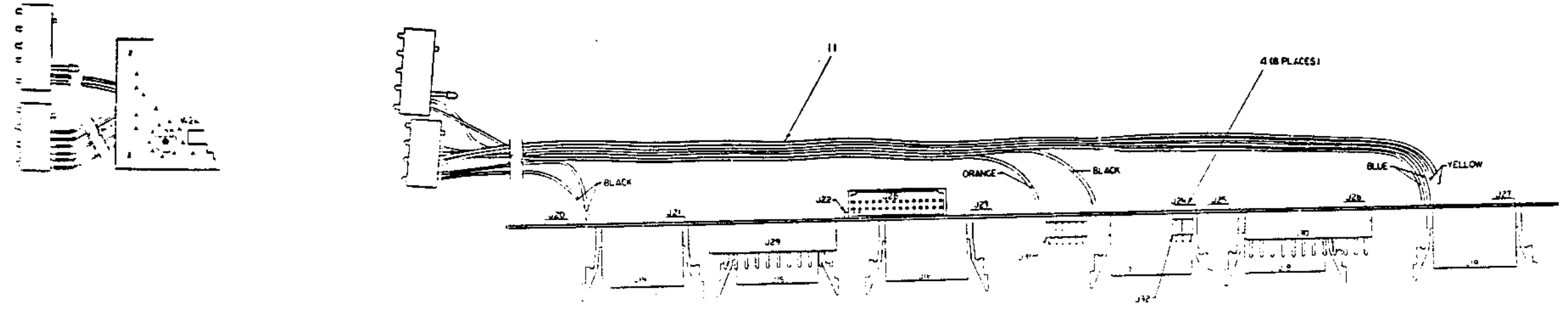
D	I	G	I	T	A	L	TITLE	SECTION A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							H7216				K	PL	5415558-0-DBP	C

SEE NOTE 1 FOR INFORMATION ON THE  
 USE OF THIS DRAWING. THE  
 DRAWING IS TO BE USED AS A  
 GUIDE ONLY. IT IS NOT TO BE  
 USED AS A BASIS FOR CONSTRUCTION.  
 DATE: 11/22/91

TABLE A (SEE NOTE 2)

NO.	DESCRIPTION	DATE	BY
01	ISSUED FOR REVIEW	11/22/91	...
02	...	...	...
03	...	...	...
04	...	...	...

NOT TO SCALE



NOTES

- ...
- ...
- ...
- ...

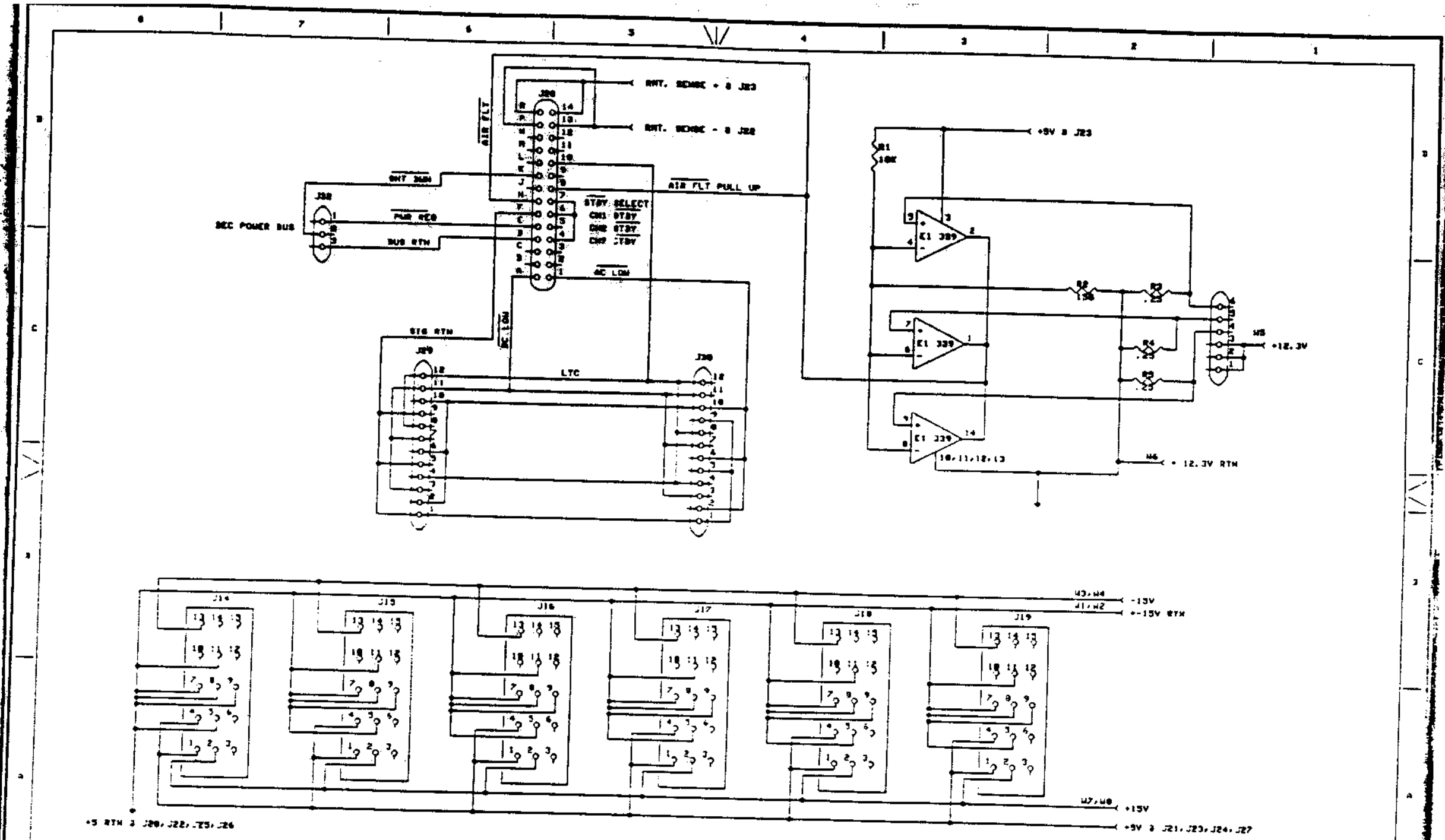
DATE	11/22/91
BY	...
CHECKED	...
APP. BY	...

SIGNATURES	DATE
DRN	11/22/91
CHK. D.	...
RECH. ENG.	...
PROJ. ENG.	...
PROD.	...
SCALE	...
SMT.	OP

TITLE	DIST. 80
SIC/CDCL	NUMBER
DATE	11/22/91



115-152-0000



CHK	CHANGE NO	REV

DRN BY STEVE CONCORDAN	DATE FEB-20-84	TITLE POWER DISTRIBUTION BOARD
CHK BY	DATE	NUMBER 70-1610E-B-1
PAGE 1 OF 1		REV 1

74 1 2. DRAM

0-0-2519HS DD B  
 REV NUMBER CODE SIZE

DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS														
				A	B	C												
		5416152-01	PART REVISION															
E-UA-5416152-0-0	1		UNIT ASSEMBLY	A	A	B												
K-PL-5416152-0-DBP	1		PARTS LIST	A	A	B												
K-PC-5416152-0-DBV	-		PC DESIGN DATA BASE	B	B	C												
K-CS-5416152-0-1	1		SCHEMATIC	A	A	B												
E-DD-5016151-0-0	1		DRAWING DIRECTORY	A	B	C												
K-CS-5416152-0-DBF	-		DISTRIBUTION BOARD ELEM	A	A	B												

NOTES:

REVISION HISTORY		DATE	ECO NO	REV
		7/84	INIT	A
		3/85	TW001	B
		9/85	TW002	C

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USED ON OPTION/MODEL	DRAWN: <i>[Signature]</i> DATE: 11-2-84	TITLE: DISTRIBUTION BOARD ELEM
	CHK'D: <i>[Signature]</i> DATE: 11-2-84	DOCUMENT NUMBER
	DES. ENG. DATE: 3-1-84	SIZE CODE NUMBER REV
	RESP. ENG. DATE: 3-1-84	B DD 5416152-0-0
	MFG. ENG. DATE: 3-1-84	SHEET 1 OF 1

TW



AUTOMATED BY VAX\*PL (V1.1)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1	D-MD-5016151-0-0	50-16151-01		ETCH CUT BOARD	1	
2	2		12-09350-15		MATE-N-LOK 15SKT(3X05).240CC HSG	6	J14-J19
3	3		12-09456-01		MATE-N-LOK 01SKT 20-18AWG .0870D	90	
4	4		12-14809-01		INSERT,W/O INTERNAL THREADS,THRU	8	J20-J27
5	5		12-16112-01		PCB,HEADER 28POS(2X14).100CC 90D	1	J28
6	6		12-16652-00		PCB,HEADER 12PIN(1X12).156CC STR	2	J29,J30
7	7		12-18243-03		PCB HEADER 06PIN(1X06).100CC STR	1	J31
8	8		13-00479-00		10.0 K .25 W 5.0 % CF	1	R1
9	9		13-00250-00		150.0 .25 W 5.0 % CF	1	R2
10	10		13-22891-01		.25 .25 W 5.0 % 20	3	R3-R5
11	11		17-00634-01		WIRE HARN ASSY,08COND,18AWG 8P C	1	
12	12		19-12108-B0		339 BURNED-IN VOLT CMPRT	1	E1
13	13		12-18243-00		PCB HEADER 03PIN(1X03).100CC STR	1	J32

1 GEN: 1.REF.DES. D1-03 ARE NOT USED.

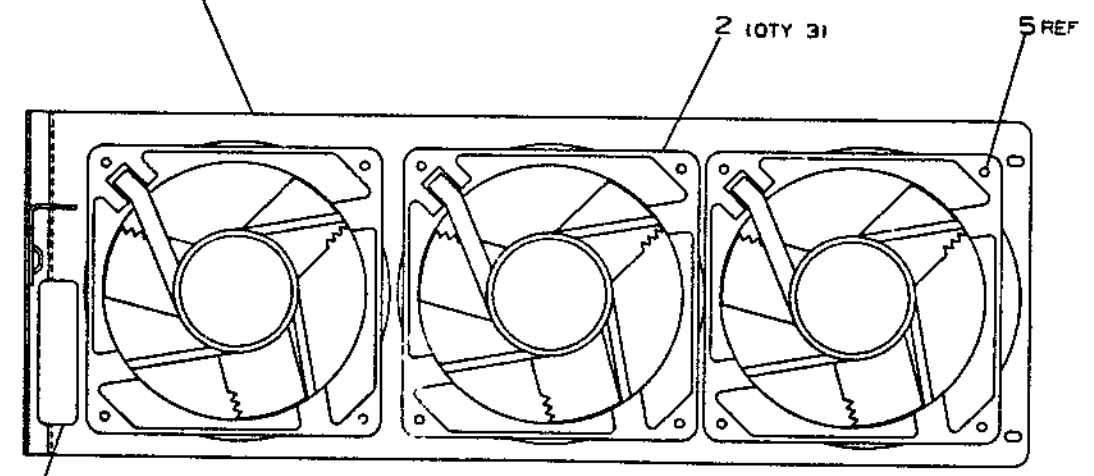
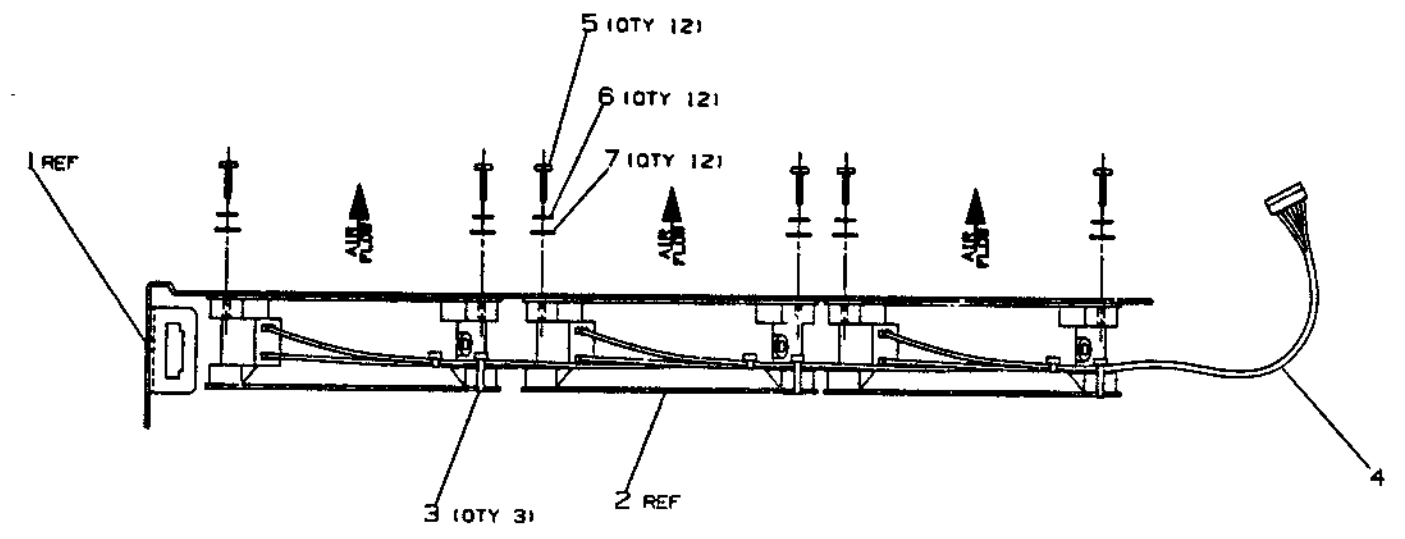
REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A		DRN: S.MANSOR		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX	DATE	CHK'D	DATE	TITLE	DOCUMENT NUMBER	REV
---	INITIAL	A	(A) 01 (M)	13-FEB-84	E.T.GERRY	13-FEB-84	PARTS LIST		
DC	54 6152-TW002	B	(B) (N)				ELEM DISTRIBUTION BD. (VENUS)		
			(C) (P)		DES.ENG: D.CALDERAN	16-AUG-84			
			(D) (Q)		RESP.ENG.: D.CALDERAN	16-AUG-84			
			(E) (R)		MFG.ENG: HECTOR M. ORTIZ	16-AUG-84			
			(F) (S)						
			(H) (T)						
			(J) (V)						
			(K) (W)						
			(L) (Y)						
BASIC PART NUMBER:		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
5416152		E-UA-5416152-0-0		B-DD-5416152-0-0		!TW075B.PLS		1	

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REVISIONS

LEGEND		
PART NO.	REV	VARIATION
7022115-0	A2	AS SHOWN

NOTE:  
1. TORQUE ALL SCREWS PER A-SP-78852/8-0-0.



LAYER #2: FORMAT LAYER  
LAYER #1: WORK LAYER  
FILENAME: 7022115-0-DBUB

PLOT AT: 1.00

CAUTION: FOR OFF SHEET PARTS LIST,  
SEE K-PL-7022115-0-DBP.  
(Z9575)

REV	DESCRIPTION
A	INITIAL
B	THE (DOZ) (ALGO) B
C	A. JAMES ZIMMER
D	J. ANGLIO

DESCRIPTION		DRAWING NO.		PART NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)					
TOLERANCE	±0.004	±0.005	±0.007	±0.010	±0.015
	±0.008	±0.010	±0.012	±0.015	±0.020
FINISH	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN
	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN
MATERIAL	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST
	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST	SEE PARTS LIST
DATE	APR 1964	APR 1964	APR 1964	APR 1964	APR 1964
BY	L. BOURGALT	A. PERRY	A. PERRY	V. MITCHELL	E. AD
CHECKED BY					
TITLE	FAN T Y ASSY				
DRAWING NO.	E-AD-7022115-0-DBUB				
PART NO.	E-AD-7022115-0-DBUB				
REV	A				

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	QUANTITY PER VARIATION/REVISION
1	1	D-AD-7016376-0-0	70-16376-00		FAN TRAY + BRACKET ASSY	1	
2	2	A-PS-122271-0-0	12-22271-03		FAN, TUBE AXIAL 4.5" 12VDC	3	
3	3		90-07031-00		TIE, CABLE BUNDL. DIA 0- 3/4"=101	3	
4	4	A-PS-1700636-0-0	17-00636-01		WIRE HARN ASSY 06COND 22AWG IDC-6T	1	
5	5		90-06025-01		SCREW, MACH PAN PHIL 6-32	12	
6	6		90-07649-00		WASHER, LOCK EXTERNAL STEEL	12	
7	7		90-06659-00		WASHER, FLAT S/PAS	12	
8	8		90-09255-00		LABEL, POWER SUPPLY, 2-15/16 " LG	1	

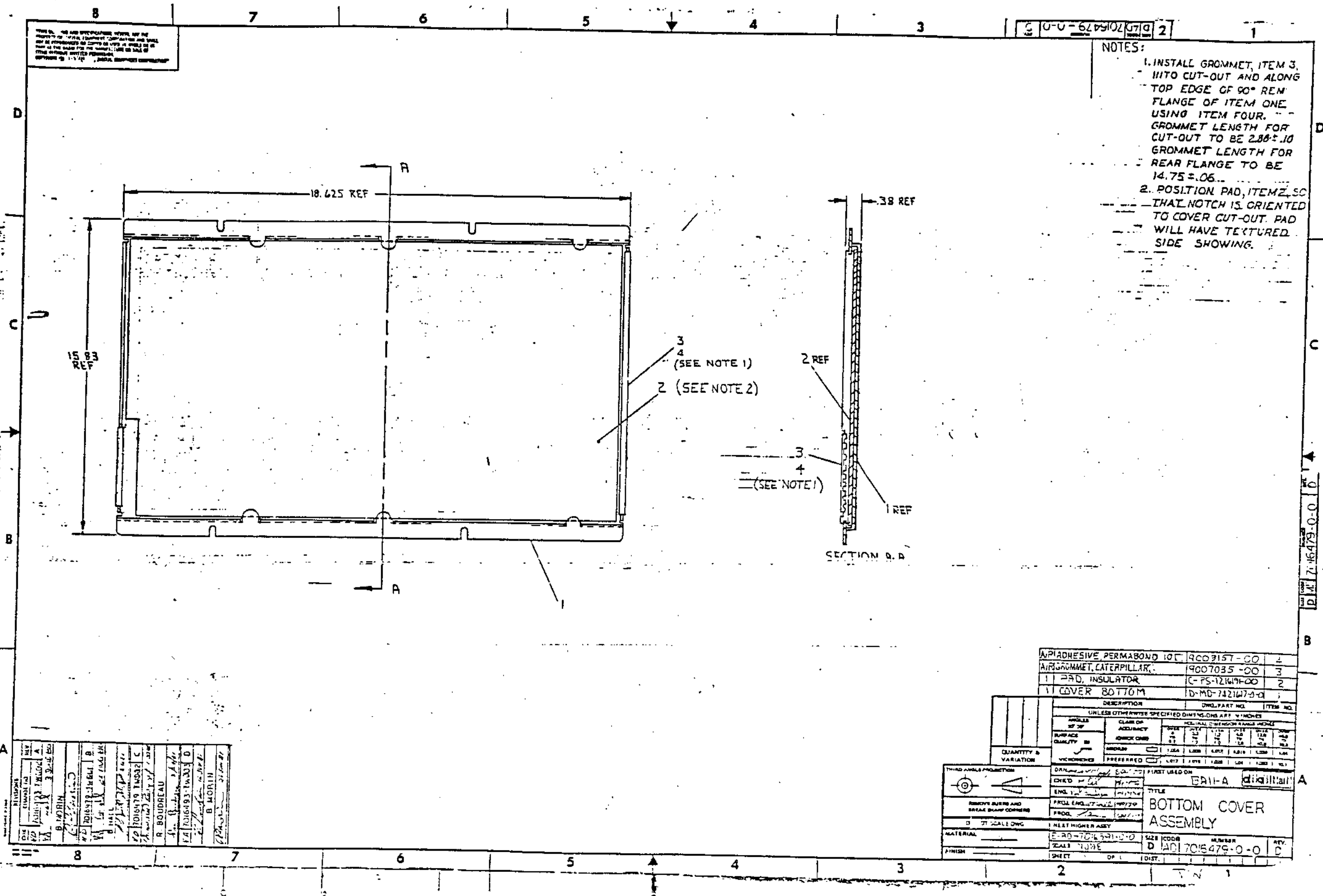
REVISION HISTORY		KPL MATRIX FORMAT		SECTION A OF A		DRN: L. BOURGAULT		DIGITAL	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE:	DATE: 21-AUG-84			
---	INITIAL	A	[A]	01	CHK'D:	A. PERRY		TITLE PARTS LIST	
JA	7022115-LK001	B	[B]		DATE:	21-AUG-84		FAN TRAY ASSEMBLY	
			[C]		DES. ENG:	A. PERRY		DOCUMENT NUMBER	
			[D]		DATE:	21-AUG-84		SIZE	CODE
			[E]		RESP. ENG.:	MAN W. CHOW		NUMBER	REV
			[F]		DATE:	21-AUG-84		K	PL
			[H]		MFG. ENG.:	V. MITCHELL		7022115-0-DBP	
			[J]		DATE:	21-AUG-84		RELEASE DATE: 30-JUN-86	
								RELEASE STATUS: RELEASED	
					BASIC PART NUMBER:	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
					7022115	E-UA-BA11-0-0	E-AD-7022115-0-DBU	Z9575B.PLS	2

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D 7015479-0-0 2

- NOTES:
1. INSTALL GROMMET, ITEM 3, INTO CUT-OUT AND ALONG TOP EDGE OF 90° REN FLANGE OF ITEM ONE USING ITEM FOUR. GROMMET LENGTH FOR CUT-OUT TO BE  $2.88 \pm .10$ . GROMMET LENGTH FOR REAR FLANGE TO BE  $14.75 \pm .06$ .
  2. POSITION PAD, ITEM 2, SO THAT NOTCH IS ORIENTED TO COVER CUT-OUT. PAD WILL HAVE TEXTURED SIDE SHOWING.



DESIGNED BY	DATE	BY	DATE
APPROVED BY		BY	
CHECKED BY		BY	
ENGINEER		BY	
DRAWN BY		BY	
INSTRUMENTED BY		BY	
COLLAPSED BY		BY	
REVISIONS		BY	
1. R. BOUDREAU		BY	
2. B. MORIN		BY	

APL ADHESIVE PERMABOND 100	9003157-00	4
AIR GROMMET, CATERPILLAR	9007035-00	3
1 PAD, INSULATOR	C-PS-121619-00	2
1 COVER BOTTOM	D-MD-7421617-0-0	1

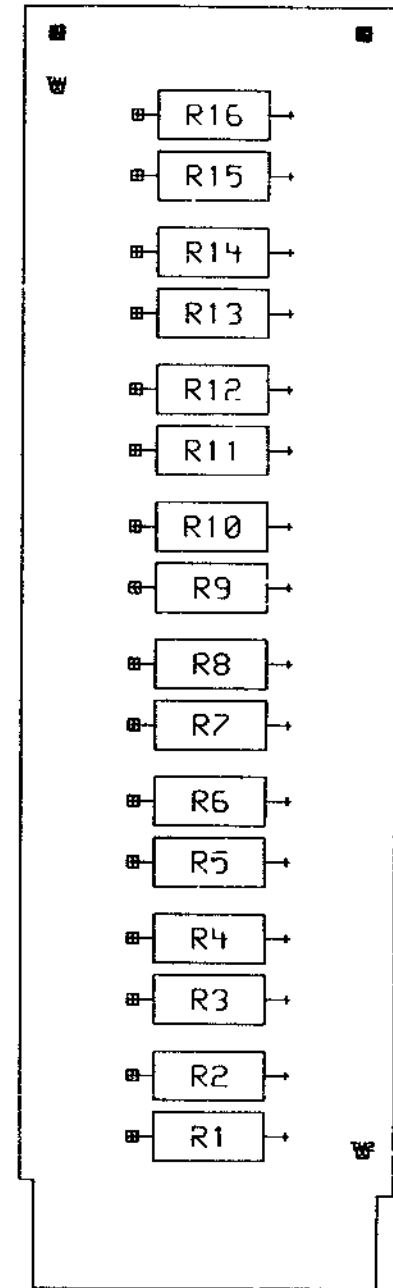
QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLE	CLASS OF	ACCURACY	SHAPE	COLLAPSED	FINISH	SCALE	FINISH
SURFACE	QUALITY	CHECK ONE	MATERIAL	1.25A	1.25B	1.25C	1.25D
THIRD ANGLE PROJECTION		DATE		FIRST USED ON		TITLE	
CHECKED BY		ENGR. 1		PROJ. ENGR. 2		PROJ.	
SCALE		NEXT HIGHER ASSEMBLY		MATERIAL		FINISH	
SCALE		SCALE		SCALE		SCALE	
FINISH		FINISH		FINISH		FINISH	

DATE: 10/1/77  
 TITLE: BOTTOM COVER ASSEMBLY  
 NUMBER: D 7015479-0-0  
 SHEET: 2 OF 1  
 DIST: 1

	8	7	6	5	4	3	2	1																															
D									D																														
C	DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION			REVISIONS		C																														
B			M9049	ECO NUMBER					B																														
A				MODULE REVISION			A1		A																														
	D-UA-M9049-0-0	1		ELEM POWER SUPPLY LOAD BD			A																																
	K-PL-M9049-DBP	1		PARTS LIST, M9049			A																																
	K-PC-M9049-DBJ			SCICARDS DATA BASE			A																																
	<table border="1"> <tr> <td>ORIGINATOR</td> <td>DATE</td> <td>CHK'D</td> <td>DATE</td> <td>TITLE</td> </tr> <tr> <td>S. DEHEALTY</td> <td>12-19-78</td> <td>P. LAURENCE</td> <td>12-19-78</td> <td>DRAWING DIRECTORY</td> </tr> <tr> <td>CHK'D</td> <td>DATE</td> <td>DATE</td> <td>LOCATION</td> <td>NUMBER</td> </tr> <tr> <td>J. GADO</td> <td>12-19-78</td> <td>12-19-78</td> <td>N/A</td> <td>M9049</td> </tr> <tr> <td colspan="4">FIRST USED ON OPTION MODEL</td> <td>REV.</td> </tr> <tr> <td colspan="4">NONE</td> <td>A</td> </tr> </table>								ORIGINATOR	DATE	CHK'D	DATE	TITLE	S. DEHEALTY	12-19-78	P. LAURENCE	12-19-78	DRAWING DIRECTORY	CHK'D	DATE	DATE	LOCATION	NUMBER	J. GADO	12-19-78	12-19-78	N/A	M9049	FIRST USED ON OPTION MODEL				REV.	NONE				A	
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NONE				A																																			
	8	7	6	5	4	3	2	1																															

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DESIGN EQUIPMENT CORPORATION

COMPONENT SIDE VIEW



CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES:

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STEP    → Y AXIS \_\_\_\_\_ STEP \_\_\_\_\_ TIMES \_\_\_\_\_  
 REPORT → X AXIS \_\_\_\_\_ STEP \_\_\_\_\_ TIMES \_\_\_\_\_


ETCH REV. AI

SIGNATURES		DATE	digital
DRW. J PLANTE		7/2/90	
CHK'D. JOSE DELGADO		5/2/86	TITLE ELEM POWER SUPPLY LOAD BD
MECH. ENG. PAT CAPPABIANCA		3/2/86	
PROJ. ENG. P. LAWRENCE		3/2/86	
PROD. LAURA BELMONT		3/2/86	
SCALE 2/1			
SHT. 1 OF 1			
TCP DOC NO: 15-00-M9049-3			

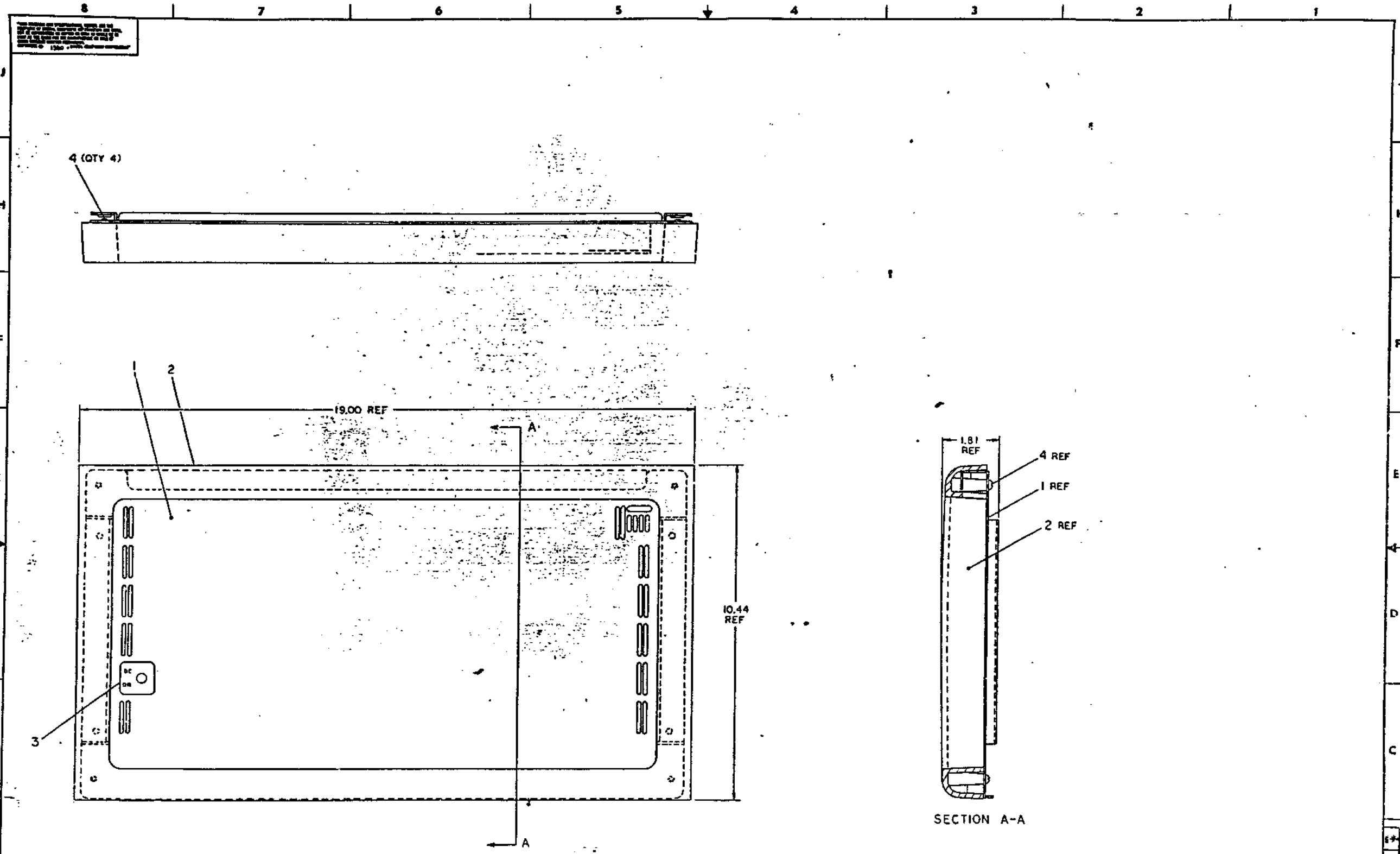
179019-0-0  
 B 1/1A  
 B 1/1A  
 B 1/1A  
 A

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV	REFERENCE DESIGNATORS
1	1 D-MD-5017872-0-0	50-17872-01	A	DRILL & ETCH FOR M9049	1	
2	2 SEE NOTE # 2	13-19471-21	A	300.0 2.0 W 5.0 % M.OXIDE	16	R1-R16
3	3	90-00024-01		EYELET, ROLLED 0.1210DX0.192	2	
4	4	90-08337-06	D	HANDLE, FLIP CHIP, MAGENTA	1	

2 NOTE: 13-09855-00 CAN BE USED AS A REPLACEMENT FOR ITEM 2.

REVISION HISTORY		KPL MODULE FORMAT		SECTION A OF A		DRN: J PLANTE		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX		DATE:	CHK'D:	TITLE PARTS LIST		
---	INITIAL	A	[A] 00	[M]	10-MAR-86	J LENT	ELEM PWR SUPPLY LOAD BD M9049		
			[B]	[N]	10-MAR-86		DOCUMENT NUMBER		
			[C]	[P]	10-MAR-86	P LAWRENCE	SIZE:	CODE:	NUMBER
			[D]	[Q]	10-MAR-86		K	PL	M9049-0-DBP
			[E]	[R]	10-MAR-86	P LAWRENCE	RELEASE DATE: 06-MAY-86		
			[F]	[S]	10-MAR-86		RELEASE STATUS: RELEASED		
			[H]	[T]	10-MAR-86	Laura Belmont			
			[J]	[V]	10-MAR-86				
			[K]	[W]	10-MAR-86				
			[L]	[Y]	10-MAR-86				
		BASIC PART NUMBER: M9049		ASSEMBLY NUMBER: D-UA-M9049-0-0		TOP DOCUMENT NUMBER: D-DD-M9049-0		FILE NAME: MR592A.PLS	
								EDIT # 14	

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ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES  
 DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS  
 UNLESS OTHERWISE SPECIFIED

QTY	DESCRIPTION	REF	PART NO	REV
4	SCREW, 0-32 X .50 NYLON	4	931019-30	1
1	DECAL	1	357782-00	1
1	BEZEL	1	E-5-027044-00	1
1	BEZEL MTG PANEL	1	E-1A-72352-0-0	1

DATE	BY	CHKD	APP'D	TITLE
				CONSOLE BEZEL ASSEMBLY

SCALE	1:1
DATE	10/17/63
BY	E
CHKD	
APP'D	
TITLE	CONSOLE BEZEL ASSEMBLY
REF	1016963-0-0

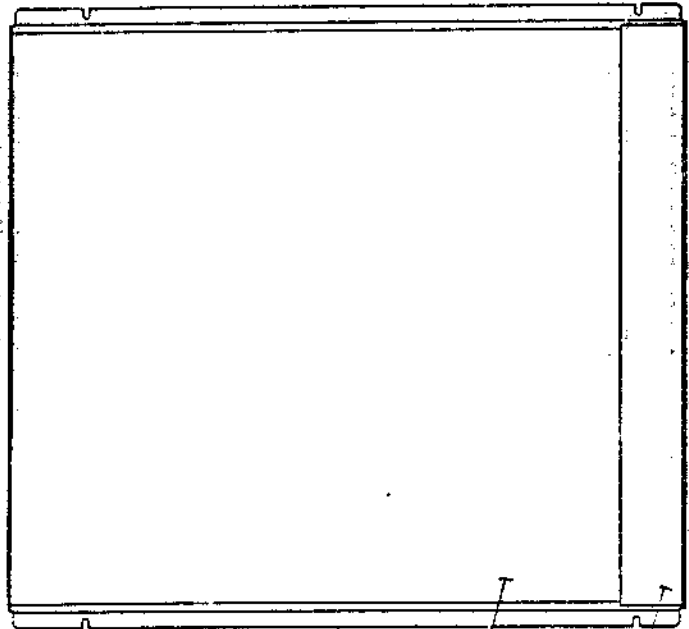
SEE PARTS LIST



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LEGEND		
PART NO.	VARIATION	REV
7020490-00	AS SHOWN	A

NOTES  
 1. MARK PART NO. AND REV. LETTER IN AREA SHOWN USING 12 HIGH BLACK CHARACTERS PER DEC STD 178.



SEE NOTE 1

1  
2  
3



**CAUTION** OFF SHEET PARTS LIST EXIST  
 SEE K-PL-7020490-0-DBP

DATE	ECO NUMBER	REV

DESCRIPTION	DRAWING NO	PART NO	ITEM NO		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 118)					
INCHES TOLERANCES X = .1 XX = .02 XXX = .005	ANGLES ± 30° SURFACE QUALITY MICROINCHES	APPLICABLE DIMENSION RANGE			
		DIMENSION RANGE IN INCHES			
		OVER TO	OVER TO	OVER TO	OVER TO
		0.2	1.2	1.2	4.0
		1.2	2.0	2.0	4.0
		2.0	4.0	4.0	8.0
		4.0	8.0	8.0	16.0
		8.0	16.0	16.0	32.0
		16.0	32.0	32.0	64.0
THIRD ANGLE PROJECTION	DATE	DATE	TITLE		
DO NOT SCALE DRAWING	DATE	DATE	TOP COVER ASSY		
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DATE	DOCUMENT NUMBER		
SEE PARTS LIST	DATE	DATE	DIA 7020490-0-0 A		
FINISH	DATE	DATE	SCALE	SHEET 1 OF 1	
			MRO	1	

AUTOMATED BY PRTLST.4Q(50)

PARTS LIST

SHEET A1 OF A1

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QUANTITY PER VARIATION  
00

1 1 D-IA-7426280-0-0  
2 2  
3 3

7426280-01  
1212461-19  
9009733-01

COVER, TOP  
FOAM, ACOUSTIC, ADH BACK, 15.38X14.  
FOAM, SHEET, PRESSURE SENSITIVE 1

1  
1  
1

REVISION HISTORY			BASIC PART NO: 7020490		DRN: P.DENNISON		DATE: 16-NOV-82		DIGITAL			
ENGI	ECO NUMBER	REV	SECTION A OF A	CHK'D:	B. HOVEY	DATE:	18-NOV-82	TITLE		PARTS LIST		
	INITIAL	A	SECTION. VARIATION INDEX					TOP COVER ASSY				
			[A] 00	DES.ENG.:	P.PORRECA	DATE:	18-NOV-82	DOCUMENT NUMBER				
			[B]	RESP.ENG.:	P.PORRECA	DATE:	18-NOV-82	SIZE	CODE	NUMBER	REV	
			[C]	IMPG.ENG.:	J.SANNICANDRO	DATE:	18-NOV-82	K	PL	7020490-0-DBP	A	
			[D]	ASSEMBLY NUMBER:	D-IA-7020490-0-0	TOP DOCUMENT NUMBER:	FB-DD-8A11-AE	FILE NAME:		EDIT #		
			[E]					Z5898A.PLS		4		
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MRO